

CIRCULAR

GUIDING THE MANAGEMENT AND USE OF FOOD ADDITIVES

Pursuant to the Law on Food Safety dated June 17, 2010;

Pursuant to the Government's Decree No. 15/2018/ND-CP dated February 02, 2018 on elaboration of some articles of the law of food safety;

Pursuant to the Government's Decree No. 75/2017/ND-CP dated June 20, 2017 on functions, tasks, powers and organizational structure of the Ministry of Health;

At the request of the Director General of the Vietnam Food Administration;

The Minister of Health promulgates the Circular guiding the management and use of food additives.

Chapter I

GENERAL PROVISIONS

Article 1. Scope of amendments

This Circular provides for the list of food additives; use and management of food additives and responsibilities of relevant regulatory bodies, organizations and individuals.

Article 2. Regulated entities

This Circular is applicable to organizations and individuals involving in manufacture, sale and import of food and food additives in Vietnam and relevant regulatory bodies, organizations and individuals.

Article 3. Definitions

In this Circular, the undermentioned terms and abbreviations shall be defined as follows:

1. “CAC” stands for the Codex Alimentarius Commission.
2. “JECFA” stands for the Joint FAO/WHO Expert Committee on Food Additives.
3. “*flavoring*” (food additive) is a substance added to food to affect, change or increase food flavor. Flavorings include flavoring substances, natural flavoring complexes; flavorings used in heat

processing or smoke flavorings and their mixtures; may contain non-flavoring food ingredients with conditions prescribed in section 3.5 of the National Standard TCVN 6417:2010 guiding the use of flavorings. Flavorings do not include substances that simply create sweetness, sourness or saltiness (such as sugar, vinegar or salt); and flavor enhancers that are considered food additives in the CAC/GL 36-1989 Codex Class Names and the International Numbering System for Food Additives.

4. “*non-flavoring food ingredient*” means an ingredient that is used as a food additive/food ingredient and is necessary for the manufacture, preservation and transport of flavorings or dissolution, disperse or dilution of flavorings.

5. “*acceptable daily intake*” (“ADI”) means the daily intake of a food additive over a lifetime without an appreciable risk to human health and is expressed as mg per kg of body weight.

6. “*acceptable daily intake not specified/not limited*” means the daily intake of a food additive with very low toxicity based on available chemical, biochemical and toxicological data and other factors. Such intake is maintained at an amount necessary to achieve the desired effects and acceptable without an appreciable risk to human health.

7. “*maximum use level*” (“ML”) means the highest amount of a food additive that is determined to be functionally effective for one kind of food or food group; usually expressed as mg of additive per kg of food or mg of additive per liter of food.

8. “*mixed food additive with new uses*” means a food additive containing at least two (02) additives with its uses different from those of its components.

Chapter II

LIST OF PERMITTED FOOD ADDITIVES

Article 4. Rules for compilation of the list of permitted food additives

The list of permitted food additives shall be compiled on the basis of:

1. Protection of human health.
2. Compliance with international standards and regulations on management and use of food additives
3. Being up-to-date with recommendations on risk management for food additives of Vietnamese, CAC, JECFA and foreign competent authorities.

Article 5. List of permitted food additives and maximum use level

1. Enclosed with this Circular is Appendix 1 containing the list of permitted food additives.
2. Enclosed with this Circular is Appendix 2A and Appendix 2B containing the maximum use level of food additives.

3. Enclosed with this Circular is Appendix 3 containing the list of permitted food additives and food using food additives according to GMP.

4. Flavorings include the flavorings evaluated and confirmed as safe for expected intakes or ADI by JECFA. These flavorings shall satisfy corresponding technical requirements on recognizability and purity; and comply with regulations of the National Standard TCVN 6417:2010 guiding the use of flavorings and specific provisions of this Circular.

Article 6. Classification and description of groups of food using food additives

1. Enclosed with this Circular is Appendix 4 containing the classification and description of food groups to identify the food groups to which Appendix 2A and Appendix 3 are applied.

2. Food classification prescribed in Clause 1 herein shall not be used to regulate product naming and goods labeling.

3. Rules for application of food group codes:

a) If a food additive is permitted for use in one food group, it may also be used for subgroups of such group unless otherwise provided for;

b) If a food additive is permitted for use in one subgroup, it may also be used for subordinate groups of such subgroup or for individual foods of such subgroup unless otherwise provided for.

Chapter III

USE OF FOOD ADDITIVES

Article 7. General rules for use of food additives

1. Use of food additives must ensure that:

a) The food additive is permitted for use and is used for the right food;

b) The amount of food additive used does not exceed the maximum use level applied to one kind of food or food group;

c) Food additives shall be used with the minimum amount necessary to produce the desired technical effects.

2. Food additives shall only be used if such use could produce the desired effects without harming human health or deceiving consumers. Food additives shall only be used for one or more than one of their function to achieve the following purposes in case other options more economically and technologically effective to achieve such purposes are not available.

a) Maintenance of nutritional value of food. Products for special uses where food additives are used as food ingredients (e.g. dietary sugar) are not regulated by this Circular;

b) Increase of maintenance of food quality or stability or organoleptic improvement without affecting the nature or quality of food to deceive consumers;

c) Support for manufacture and transport but not for the purpose of hiding the effects resulted from use of low quality ingredients or improper manufacturing/technical practice.

3. Food additives must satisfy technical and food safety requirements according to the following documents:

a) National technical regulations or regulations of legislative documents promulgated by competent authorities if there is no applicable national technical regulation yet;

b) National standards in case the regulations prescribed in Point a herein are not yet applicable;

c) CAC and JECFA standards and regional and foreign standards in case the regulations prescribed in Points a and b herein are not yet applicable;

d) Manufacturer standards in case the regulations prescribed in Points a, b and c herein are not yet applicable.

4. Besides appearing in food when used in manufacture, food additives may also appear in food when the ingredients or components for manufacture of such food have already contained food additives. Such cases must comply with the regulations of Article 9 herein.

Article 8. Rules for determination of maximum use level of food additives according to Good Manufacturing Practice (GMP) regulations

1. Food additives shall be used with the minimum amount necessary to produce the desired technical effects.

2. The amount of food additives used in manufacture must not alter the nature of food or food manufacturing technology.

3. Food additives must ensure quality and safety for use in food and shall be processed and transported in the same way as food ingredients.

Article 9. Food additives brought into food by the ingredients or components for manufacture of such food

1. The food additives brought into food by the ingredients or components for manufacture of such food must satisfy the following requirements:

a) Permitted for use in ingredients or components (including in food additives);

b) Not exceeding maximum use level applied to use in ingredients or components (including in food additives);

c) The food containing food additives that originate from its ingredients or components shall ensure that the amount of such food additives do not exceed the maximum use level applied to the ingredients or components for manufacture of such food according to manufacture procedures and technology.

2. Food additives that are not permitted for use in ingredients or components for food manufacture may be used in or added to such ingredients or components if such food additives are manufactured or imported for internal use within an enterprise or the importing and distributing enterprises have signed a contract with food manufacturers. Such cases must satisfy the following requirements:

a) Such ingredients or components shall be used to manufacture only one kind of food;

b) The food additives must be permitted for use and the use amount shall not exceed the maximum use level applied to that kind of food;

c) The food additives must have their product declarations registered according to Clause 2 of Article 11 herein.

3. Additives brought into food by ingredients or components for manufacture of such food are not permitted for the following product groups, unless such additives are stipulated in Appendix 2A, Appendix 2B and Appendix 3 enclosed with this Circular:

a) Formula products for newborns and infants, formula products for special medical uses for newborns (food group code: 13.1);

b) Supplementary food for newborns and infants (food group code: 13.2).

4. If a food additive is brought into food by ingredients or components for manufacture of such food but it does not constitute the uses of the finished product, it does not have to be listed in the composition of such food.

Article 10. Requirements for dividing, filling, repacking and mixing of food additives

1. Requirements for dividing, filling and repacking of food additives are as follows:

a) Dividing, filling and repacking of food additives shall only be carried out upon the written agreement of the organizations/individuals manufacturing or holding responsibilities for the products;

b) Dividing, filling and repacking of food additives must not affect product quality and safety or cause any risk to human health;

c) Labels of food additives that have been divided, filled or repacked must include the date of such dividing, filling or repacking. The expiry date shall be determined based on the date of manufacture on the original labels of the food additives prior to dividing, filling or repacking;

d) Dividing, filling and repacking of food additives shall comply with other regulations relating to manufacture and sale of food additives.

2. Requirements for mixing of food additives and mixed food additives are as follows:

- a) Food additives shall only be mixed when such mixing does not cause any risk to human health;
- b) Ingredient quantity of each food additive shall be included in the product composition;
- c) Guidelines for maximum use level, the food using food additives and functions of food additives shall be provided;
- d) Mixing of food additives shall comply with other regulations relating to manufacture and sale of food additives.

Chapter IV

MANAGEMENT OF FOOD ADDITIVES

Article 11. Product declaration

1. Food additives must be declared before being distributed on the market, except for the food additives prescribed in Clause 2 of this Article and Clause 2 of Article 4 of the Government's Decree No. 15/2018/ND-CP dated February 02, 2018 on elaboration of some articles of the law of food safety. Procedures for product declaration shall be carried out according to Article 5 of the Decree No. 15/2018/ND-CP and Point a of Clause 1 of Article 3 of the Government's Decree No. 155/2018/ND-CP dated November 12, 2018 on amendments to some articles related to business conditions under state management of the Ministry of Health.

2. Mixed food additives with new uses and food additives not included in the list of permitted food additives prescribed in this Circular must have their declarations registered with the Vietnam Food Administration and Ministry of Health before official use or distribution on the market. Procedures for registration of product declaration shall be carried out according to Articles 7 and 8 of the Government's Decree No. 15/2018/ND-CP dated February 02, 2018 on elaboration of some articles of the law of food safety.

Article 12. Labeling

Food additive labeling shall be carried out according to the Government's Decree No. 43/2017/ND-CP dated April 14, 2017 on goods labeling and relevant documents.

Article 13. Handling of administrative violations relating to food safety applied to manufacture, sale and use of food additives

Administrative violations relating to food safety in manufacture, sale and use of food additives shall be handled according to the Government's Decree No. 115/2018/ND-CP dated September 04, 2018 on penalties for administrative violations against regulations on food safety and relevant documents. In case there are aggravating circumstances in a violation as prescribed in the Law on Handling Administrative Violations, competent persons shall consider and decide to impose the fine up to the highest and revocation of the certificate of registered product declaration.

Chapter V

IMPLEMENTING PROVISIONS

Article 14. Transitional clauses

1. Food additives and food products using food additives that have been granted the certificate of declaration of conformity or certificate of declaration of conformity with the food safety regulations before the date this Circular comes into effect may continue to be used until the expiration dates of such certificates or products, excluding the cases where there are food safety warnings.
2. Food additives and food products using food additives that have completed product declaration or have been granted the certificate of product declaration registration before the date this Circular comes into effect, if not conforming with the regulations of this Circular, may continue to be used until the expiration dates of such products, excluding the cases where there are food safety warnings.

Article 15. Terms of reference

In case the documents referred to herein are amended or superseded, the new documents shall be applied.

Article 16. Effect

1. This Circular takes effect from October 16, 2019.
2. The Minister of Health's Circular No. 27/2012/TT-BYT, the Minister of Health's Circular No. 08/2015/TT-BYT and Part III of the Minister of Health's Decision No. 3742/2001/QĐ-BYT are annulled from the date this Circular comes into effect.

Article 17. Implementation responsibilities

1. The Vietnam Food Administration shall be responsible for taking charge and cooperating with relevant competent authorities in organizing the implementation and inspection of the implementation of this Circular throughout the country.
2. The Vietnam Food Administration shall propose inspection of and amendments to this Circular every two (02) years or ad hoc per management requirements on the basis of updates of CAC standards and requests of organizations and individuals involving in manufacture and sale of food additives and food.
3. Organizations and individuals involving in manufacture, sale and import of food additives and food must satisfy the following requirements:
 - a) Manufacture, sale, import and use of food additives shall be carried out according to regulations of this Circular;

- b) When a food additive is found to have violated a regulation of this Circular, manufacture, sale and import of such food additive shall be suspended and relevant competent authorities shall be notified of such violation;
- c) Food additives that violate safety regulations shall be revoked and handled according to applicable regulations.
- d) In case of request for addition of a food additive or kind of food not provided for in this Circular, organizations and individuals must provide scientific proofs for the safety of such product for consideration.
4. Head of Office of the Ministry of Health, chief inspector of the Ministry of Health, heads of departments and affiliates of the Ministry of Health and relevant regulatory bodies, organizations and individuals shall be responsible for the implementation of this Circular.

During the implementation of this Circular, should any problem arise, regulatory bodies, organizations and individuals shall promptly report to the Ministry of Health (Vietnam Food Administration) for consideration and/or resolution./.

**PP. THE MINISTER
THE DEPUTY MINISTER**

Truong Quoc Cuong

APPENDIX 1

LIST OF PERMITTED FOOD ADDITIVES
(Enclosed with the Circular No. 24/2019/TT-BYT dated August 30, 2019)

NO.	INS	Name of additive		Function
		Vietnamese	English	
1.	100(i)	Curcumin	Curcumin	Colorant
2.	100(ii)	Turmeric	Turmeric	Colorant
3.	101(i)	Riboflavin, tổng hợp	Riboflavin, synthetic	Colorant
4.	101(ii)	Natri Riboflavin 5'-phosphat	Riboflavin 5'- phosphate sodium	Colorant
5.	101(iii)	Riboflavin từ <i>Bacillus subtilis</i>	Riboflavin from <i>Bacillus subtilis</i>	Colorant

6.	102	Tartrazin	Tartrazine	Colorant
7.	104	Quinolin yellow	Quinoline yellow	Colorant
8.	110	Sunset yellow FCF	Sunset yellow FCF	Colorant
9.	120	Carmin	Carmines	Colorant
10.	122	Azorubin (Carmoisin)	Azorubine (Carmoisine)	Colorant
11.	123	Amaranth	Amaranth	Colorant
12.	124	Ponceau 4R (Cochineal red A)	Ponceau 4R (Cochineal red A)	Colorant
13.	127	Erythrosin	Erythrosine	Colorant
14.	129	Allura red AC	Allura red AC	Colorant
15.	132	Indigotin (Indigocarmin)	Indigotine (Indigocarmine)	Colorant
16.	133	Brilliant blue FCF	Brilliant blue FCF	Colorant
17.	140	Chlorophylls	Chlorophylls	Colorant
18.	141(i)	Phức đồng chlorophyll	Chlorophyll copper complexes	Colorant
19.	141(ii)	Phức đồng chlorophyllin (muối natri, kali của nó)	Chlorophyllins, copper complexes, sodium and potassium salts	Colorant
20.	143	Fast green FCF	Fast green FCF	Colorant
21.	150a	Caramen nhóm I (caramen nguyên chất)	Caramel I- plain caramel	Colorant
22.	150b	Caramen nhóm II (caramen sulfit)	Caramel II - sulfite caramel	Colorant
23.	150c	Caramen nhóm III (caramen amoni)	Caramel III – ammonia caramel	Colorant
24.	150d	Caramen nhóm IV (caramen amoni sulfit)	Caramel IV –sulfite ammonia caramel	Colorant
25.	151	Brilliant black	Brilliant black	Colorant
26.	153	Carbon thực vật	Vegetable carbon	Colorant
27.	155	Brown HT	Brown HT	Colorant
28.	160a(i)	Beta-caroten tổng hợp	Carotenes, beta-, synthetic	Colorant
29.	160a(ii)	Beta - Caroten (chiết xuất từ thực vật)	Carotenes, beta-, vegetable	Colorant
30.	160a(iii)	Beta-Caroten, <i>Blakeslea trispora</i>	Carotenes, beta-, <i>Blakeslea trispora</i>	Colorant

31.	160b(i)	Chất chiết xuất từ annatto, bixin based	Annatto extracts, bixin-based	Colorant
32.	160b(ii)	Chất chiết xuất từ annatto, norbixin- based	Annatto extracts, norbixin-based	Colorant
33.	160c(i)	Paprika oleoresin	Paprika oleoresin	Colorant
34.	160d(i)	Lycopen tổng hợp	Lycopene, synthetic	Colorant
35.	160d(ii)	Lycopen chiết xuất từ cà chua	Lycopene, tomato	Colorant
36.	160d(iii)	Lycopen, <i>Blakeslea trispora</i>	Lycopene, <i>Blakeslea trispora</i>	Colorant
37.	160e	beta-apo- 8'- Carotenal	Carotenal, beta-apo- 8'-	Colorant
38.	160f	Este etyl của acid beta-apo-8'- Carotenoic	Carotenoic acid, ethyl ester, beta- apo-8'-	Colorant
39.	161b(i)	Lutein từ <i>Tagetes erecta</i>	Lutein from <i>Tagetes erecta</i>	Colorant
40.	161b(iii)	Lutein este từ <i>Tagetes erecta</i>	Lutein esters from <i>Tagetes erecta</i>	Colorant
41.	161g	Canthaxanthin	Canthaxanthin	Colorant
42.	161h(i)	Zeaxanthin tổng hợp	Zeaxanthin, synthetic	Colorant
43.	162	Beet red	Beet red	Colorant
44.	163(ii)	Chất chiết xuất vỏ nho	Grape skin extract	Colorant
45.	163(iii)	Chất chiết xuất từ quả lý chua đen	Blackcurrant extract	Colorant
46.	163(iv)	Màu ngô tím	Purple corn colour	Colorant
47.	163(v)	Màu bắp cải đỏ	Red cabbage colour	Colorant
48.	163(vi)	Chất chiết xuất từ cà rốt đen	Black carrot extract	Colorant
49.	163(vii)	Màu khoai lang tím	Purple sweet potato colour	Colorant
50.	163(viii)	Màu củ cải đỏ	Red radish colour	Colorant
51.	164	Gardenia yellow	Gardenia yellow	Colorant
52.	170(i)	Calci carbonat	Calcium carbonate	Acidity regulator, anticaking agent, colorant, firming agent, flour treatment agent, stabilizer
53.	171	Titan dioxyd	Titanium dioxide	Colorant
54.	172(i)	Oxyd sắt đen	Iron oxide, black	Colorant

55.	172(ii)	Oxyd sắt đỏ	Iron oxide, red	Colorant
56.	172(iii)	Oxyd sắt vàng	Iron oxide, yellow	Colorant
57.	181	Acid tannic (Tannin)	Tannic acid (Tannins)	Colorant, emulsifier, stabilizer, thickening agent
58.	200	Acid sorbic	Sorbic acid	Preservative
59.	201	Natri sorbat	Sodium sorbate	Preservative
60.	202	Kali sorbat	Potassium sorbate	Preservative
61.	203	Calci sorbat	Calcium sorbate	Preservative
62.	210	Acid benzoic	Benzoic acid	Preservative
63.	211	Natri benzoat	Sodium benzoate	Preservative
64.	212	Kali benzoat	Potassium benzoate	Preservative
65.	213	Calci benzoat	Calcium benzoate	Preservative
66.	214	Ethyl para-hydroxybenzoat	Ethyl para-hydroxybenzoate	Preservative
67.	218	Methyl para-hydroxybenzoat	Methyl para-hydroxybenzoate	Preservative
68.	220	Sulfua dioxyd	Sulfur dioxide	Preservative, antioxidant, bleaching agent, flour treatment agent
69.	221	Natri sulfit	Sodium sulfite	Preservative, antioxidant, flour treatment agent, bleaching agent
70.	222	Natri hydro sulfit	Sodium hydrogen sulfite	Preservative, antioxidant
71.	223	Natri metabisulfit	Sodium metabisulfite	Preservative, antioxidant, bleaching agent, flour treatment agent
72.	224	Kali metabisulfit	Potassium metabisulfite	Preservative, antioxidant, bleaching agent, flour treatment agent
73.	225	Kali sulfit	Potassium sulfite	Preservative, antioxidant
74.	231	Ortho- phenylphenol	Ortho-phenylphenol	Preservative
75.	232	Natri ortho-phenylphenol	Sodium ortho-phenylphenol	Preservative
76.	234	Nisin	Nisin	Preservative
77.	235	Natamycin	Natamycin	Preservative
78.	239	Hexamethylen tetramin	Hexamethylene tetramine	Preservative

79.	242	Dimethyl dicarbonat	Dimethyl dicarbonate	Preservative
80.	243	Lauric argrinat ethyl este	Lauric argrinate ethyl ester	Preservative
81.	249	Kali nitrit	Potassium nitrite	Color retention agent, preservative
82.	250	Natri nitrit	Sodium nitrite	Color retention agent, preservative
83.	251	Natri nitrat	Sodium nitrate	Color retention agent, preservative
84.	260	Acid acetic băng	Acetic acid, glacial	Acidity regulator, preservative
85.	261(i)	Kali acetat	Potassium acetate	Acidity regulator, preservative
86.	262(i)	Natri acetat	Sodium acetate	Acidity regulator, preservative, sequestrant
87.	262(ii)	Natri diacetat	Sodium diacetate	Acidity regulator, preservative, sequestrant
88.	263	Calci acetat	Calcium acetate	Acidity regulator, preservative, stabilizer
89.	266	Natri dehydroacetat	Sodium dehydroacetate	Preservative
90.	270	Acid lactic (L-, D- và DL-)	Lactic acid, L-, D- and DL-	Acidity regulator
91.	280	Acid propionic	Propionic acid	Preservative
92.	281	Natri propionat	Sodium propionate	Preservative
93.	282	Calci propionat	Calcium propionate	Preservative
94.	283	Kali propionat	Potassium propionate	Preservative
95.	290	Carbon dioxyd	Carbon dioxide	Carbonating agent, foaming agent, packaging gas, preservative, propellant
96.	296	Acid malic (DL-)	Malic acid, DL-	Acidity regulator, sequestrant
97.	297	Acid fumaric	Fumaric acid	Acidity regulator
98.	300	Acid ascorbic (L-)	Ascorbic acid, L-	Antioxidant, acidity regulator, flour treatment agent, sequestrant
99.	301	Natri ascorbat	Sodium ascorbate	Antioxidant
100.	302	Calci ascorbat	Calcium ascorbate	Antioxidant

101.	304	Ascorbyl palmitat	Ascorbyl palmitate	Antioxidant
102.	305	Ascorbyl stearat	Ascorbyl stearate	Antioxidant
103.	307a	d-alpha-Tocopherol	Tocopherol, d-alpha	Antioxidant
104.	307b	Tocopherol concentrat (dạng hỗn hợp)	Tocopherol concentrate, mixed	Antioxidant
105.	307c	dl-alpha- Tocopherol	Tocopherol, dl- alpha-	Antioxidant
106.	310	Propyl gallat	Propyl gallate	Antioxidant
107.	314	Nhựa guaiac	Guaiac resin	Antioxidant
108.	315	Acid erythorbic (acid isoascorbic)	Erythorbic acid (Isoascorbic Acid)	Antioxidant
109.	316	Natri erythorbat	Sodium erythorbate	Antioxidant
110.	319	Tert- butylhydroquinon (TBHQ)	Tertiary butylhydroquinone	Antioxidant
111.	320	Butyl hydroxyanisol (BHA)	Butylated hydroxyanisole	Antioxidant
112.	321	Butyl hydroxytoluen (BHT)	Butylated Hydroxytoluene	Antioxidant
113.	322(i)	Lecithin	Lecithin	Antioxidant, emulsifier
114.	325	Natri lactat	Sodium lactate	Acidity regulator, antioxidant, bulking agent, emulsifier, emulsifying salt, humectant, thickening agent
115.	326	Kali lactat	Potassium lactate	Acidity regulator, antioxidant, emulsifier, humectant
116.	327	Calci lactat	Calcium lactate	Acidity regulator, emulsifying salt, flour treatment agent, firming agent, thickening agent
117.	329	Magnesi lactat, DL-	Magnesium lactate, DL-	Acidity regulator, flour treatment agent
118.	330	Acid citric	Citric acid	Acidity regulator, antioxidant, sequestrant, color retention agent
119.	331(i)	Natri dihydro citrat	Sodium dihydrogen citrate	Acidity regulator, emulsifier, emulsifying salt, sequestrant, stabilizer
120.	331(ii)	Dinatri monohydro	Disodium monohydrogen	Acidity regulator,

		citrat	citrate	emulsifier, emulsifying salt, sequestrant, stabilizer
121.	331(iii)	Trinatri citrat	Trisodium citrate	Acidity regulator, emulsifier, emulsifying salt, sequestrant, stabilizer
122.	332(i)	Kali dihydro citrat	Potassium dihydrogen citrate	Stabilizer, acidity regulator, emulsifying salt, sequestrant
123.	332(ii)	Trikali citrat	Tripotassium citrate	Stabilizer, acidity regulator, emulsifying salt, sequestrant
124.	333(iii)	Tricalci citrat	Tricalcium citrate	Acid regulator, emulsifying salt, firming agent, sequestrant, stabilizer
125.	334	Acid tartaric, L(+)-	Tartaric acid, L(+)-	Acidity regulator, sequestrant, antioxidant, flavor enhancer
126.	335(ii)	Dinatri L(+)-tartrat	Disodium L(+)- tartrate	Acidity regulator, emulsifying salt, sequestrant, stabilizer
127.	337	Kali natri L(+)- tartrat	Potassium sodium L(+)- tartrate	Acidity regulator, emulsifying salt, sequestrant, stabilizer
128.	338	Acid phosphoric	Phosphoric acid	Acidity regulator, antioxidant, sequestrant
129.	339(i)	Natri dihydro phosphat	Sodium dihydrogen phosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, leavening agent, sequestrant, stabilizer, thickening agent
130.	339(ii)	Dinatri hydro phosphat	Disodium hydrogen phosphate	Stabilizer, acidity regulator, emulsifier, emulsifying salt, humectant, sequestrant, thickening agent
131.	339(iii)	Trinatri phosphat	Trisodium phosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, preservative, stabilizer, sequestrant, thickening agent
132.	340(i)	Kali dihydro phosphat	Potassium dihydrogen	Acidity regulator,

			phosphate	emulsifier, emulsifying salt, humectant, stabilizer, sequestrant, thickening agent
133.	340(ii)	Dikali hydro phosphat	Dipotassium hydrogen phosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, stabilizer, sequestrant, thickening agent
134.	340(iii)	Trikali hydro phosphat	Tripotassium hydrogen phosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, stabilizer, sequestrant, thickening agent
135.	341(i)	Calci dihydro phosphat	Calcium dihydrogen phosphate	Acidity regulator, anticaking agent, emulsifying salt, firming agent, flour treatment agent, humectant, leavening agent, sequestrant, stabilizer, thickening agent
136.	341(ii)	Dicalci hydro phosphat	Dicalcium hydrogen phosphate	Acidity regulator, anticaking agent, emulsifying salt, firming agent, flour treatment agent, humectant, leavening agent, stabilizer, thickening agent
137.	341(iii)	Tricalci phosphat	Tricalcium phosphate	Acidity regulator, anticaking agent, emulsifier, emulsifying salt, firming agent, flour treatment agent, humectant, leavening agent, stabilizer, thickening agent
138.	342(i)	Amoni dihydro phosphat	Ammonium dihydrogen phosphate	Acidity regulator, flour treatment agent, stabilizer, thickening agent, leavening agent
139.	342(ii)	Diamoni hydro phosphat	Diammonium hydrogen phosphate	Acidity regulator, flour treatment agent, leavening agent, stabilizer, thickening agent

140.	343(i)	Magnesi dihydrophosphat	Magnesium dihydrogen phosphate	Acidity regulator, anticaking agent, emulsifying salt, stabilizer, thickening agent
141.	343(ii)	Magnesi hydrophosphat	Magnesium hydrogen phosphate	Acidity regulator, anticaking agent, emulsifying salt, leavening agent, stabilizer, thickening agent
142.	343(iii)	Trimagnesi phosphat	Trimagnesium phosphate	Acidity regulator, anticaking agent, stabilizer, thickening agent
143.	350(i)	Natri hyro DL- malat	Sodium hydrogen DL-malate	Acidity regulator, humectant
144.	350(ii)	Natri DL-malat	Sodium DL-malate	Acidity regulator, humectant
145.	352(ii)	Calci malat, DL-	Calcium malate, DL-	Acidity regulator
146.	353	Acid metatartaric	Metatartaric acid	Acidity regulator, emulsifier, stabilizer, thickening agent
147.	355	Acid adipic	Adipic acid	Acidity regulator
148.	363	Acid succinic	Succinic acid	Acidity regulator
149.	364(ii)	Dinatri succinat	Disodium succinate	Acidity regulator, flavor enhancer
150.	365	Natri fumarat (các muối)	Sodium fumarates	Acidity regulator
151.	380	Triamoni citrat	Triammonium citrate	Acidity regulator
152.	381	Sắt amoni citrat	Ferric ammonium citrate	Anticaking agent
153.	384	Isopropyl citrate (các muối)	Isopropyl citrates	Sequestrant, antioxidant, preservative
154.	385	Calci dinatri ethylendiamintetraacetat	Calcium disodium ethylenediaminetetraacetate	Sequestrant, antioxidant, color retention agent, preservative
155.	386	Dinatri ethylendiamintetraacetat (EDTA)	Disodium ethylenediaminetetraacetate	Sequestrant, antioxidant, color retention agent, preservative, stabilizer
156.	388	Acid thiodipropionic	Thiodipropionic acid	Antioxidant
157.	389	Dilauryl thiodipropionat	Dilauryl thiodipropionate	Antioxidant
158.	392	Chiết xuất hương thảo	Rosemary extract	Antioxidant

159.	400	Acid alginic	Alginic acid	Thickening agent, bulking agent, carrier, emulsifier, foaming agent, gelling agent, glazing agent, humectant, sequestrant, stabilizer
160.	401	Natri alginat	Sodium alginate	Bulking agent, carrier, emulsifier, foaming agent, gelling agent, glazing agent, humectant, sequestrant, stabilizer, thickening agent
161.	402	Kali alginat	Potassium alginate	Bulking agent, carrier, emulsifier, foaming agent, gelling agent, glazing agent, humectant, sequestrant, stabilizer, thickening agent
162.	403	Amoni alginat	Ammonium alginate	Bulking agent, carrier, emulsifier, foaming agent, gelling agent, glazing agent, humectant, sequestrant, stabilizer, thickening agent
163.	404	Calci alginat	Calcium alginate	Thickening agent, antifoaming agent, bulking agent, carrier, gelling agent, glazing agent, humectant, sequestrant, stabilizer
164.	405	Propylen glycol alginat	Propylene glycol alginate	Bulking agent, carrier, emulsifier, foaming agent, gelling agent, thickening agent, stabilizer
165.	406	Thạch Agar	Agar	Thickening agent, bulking agent, carrier, emulsifier, gelling agent, glazing agent, humectant, stabilizer
166.	407	Carrageenan	Carrageenan	Thickening agent, bulking agent, carrier, emulsifier, gelling agent, glazing agent, humectant, stabilizer

167.	407a	Rong biển eucheuma đã qua chế biến	Processed eucheuma seaweed (PES)	Bulking agent, carrier, emulsifier, gelling agent, glazing agent, humectant, stabilizer, thickening agent
168.	410	Gôm đậu carob	Carob bean gum	Thickening agent, emulsifier, stabilizer
169.	412	Gôm gua	Guar gum	Thickening agent, emulsifier, stabilizer
170.	413	Gôm tragacanth	Tragacanth gum	Thickening agent, emulsifier, stabilizer
171.	414	Gôm arabic	Gum arabic (Acacia gum)	Thickening agent, bulking agent, emulsifier, carrier, glazing agent, stabilizer
172.	415	Gôm xanthan	Xanthan gum	Thickening agent, emulsifier, foaming agent, stabilizer
173.	416	Gôm karaya	Karaya gum	Thickening agent, emulsifier, stabilizer
174.	417	Gôm tara	Tara gum	Thickening agent, gelling agent, stabilizer
175.	418	Gôm gellan	Gellan gum	Thickening agent, gelling agent, stabilizer
176.	420(i)	Sorbitol	Sorbitol	Sweetener, bulking agent, humectant, sequestrant, stabilizer, thickening agent
177.	420(ii)	Siro sorbitol	Sorbitol syrup	Sweetener, bulking agent, humectant, sequestrant, stabilizer, thickening agent
178.	421	Manitol	Mannitol	Anticaking agent, bulking agent, humectant, stabilizer, sweetener, thickening agent
179.	422	Glycerol	Glycerol	Thickening agent, humectant
180.	423	Gôm arabic biến tính bằng acid octenyl succinic (OSA)	Octenyl succinic acid (OSA) modified gum arabic	Emulsifier
181.	424	Curdlan	Curdlan	Firming agent, gelling agent, stabilizer, thickening agent
182.	425	Bột konjac	Konjac flour	Carrier, emulsifier, gelling

				agent, glazing agent, humectant, stabilizer, thickening agent
183.	427	Gôm cassia	Cassia gum	Emulsifier, gelling agent, stabilizer, thickening agent
184.	430	Polyoxyethylen (8) stearat	Polyoxyethylene (8) stearate	Emulsifier
185.	431	Polyoxyethylen (40) stearat	Polyoxyethylene (40) stearate	Emulsifier
186.	432	Polyoxyethylen (20) sorbitan monolaurat	Polyoxyethylene (20) sorbitan monolaurate	Emulsifier, stabilizer
187.	433	Polyoxyethylen (20) sorbitan monooleat	Polyoxyethylene (20) sorbitan monooleate	Emulsifier, stabilizer
188.	434	Polyoxyethylen (20) sorbitan monopalmitat	Polyoxyethylene (20) sorbitan monopalmitate	Emulsifier
189.	435	Polyoxyethylen (20) sorbitan monostearat	Polyoxyethylene (20) sorbitan monostearate	Emulsifier, stabilizer
190.	436	Polyoxyethylen (20) sorbitan tristearat	Polyoxyethylene (20) sorbitan tristearate	Emulsifier, stabilizer
191.	440	Pectin	Pectins	Emulsifier, gelling agent, glazing agent, stabilizer, thickening agent
192.	442	Các muối amoni của acid phosphatidic	Ammonium salts of phosphatidic acid	Emulsifier
193.	444	Sucrose acetat isobutyrat	Sucrose acetate isobutyrate	Emulsifier, stabilizer
194.	445(iii)	Glycerol ester của nhựa cây	Glycerol ester of wood rosin	Emulsifier, stabilizer
195.	450(i)	Dinatri diphosphat	Disodium diphosphate	Emulsifier, acidity regulator, emulsifying salt, humectant, leavening agent, sequestrant, stabilizer, thickening agent
196.	450(ii)	Trinatri diphosphat	Trisodium diphosphate	Acidity regulator, emulsifier, emulsifying salt, leavening agent, humectant, sequestrant, stabilizer, thickening agent
197.	450(iii)	Tetranatri diphosphat	Tetrasodium diphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, stabilizer,

				humectant, leavening agent, thickening agent
198.	450(v)	Tetrakali diphosphat	Tetrapotassium diphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, stabilizer, humectant, leavening agent, thickening agent
199.	450(vi)	Dicalci diphosphat	Dicalcium diphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, firming agent, leavening agent, stabilizer, thickening agent
200.	450(vii)	Calci dihydro diphosphat	Calcium dihydrogen diphosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, leavening agent, sequestrant, stabilizer
201.	450(ix)	Magnesi dihydro diphosphat	Magnesium dihydrogen diphosphate	Acidity regulator, leavening agent, stabilizer
202.	451(i)	Pentanatri triphosphat	Pentasodium triphosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, sequestrant, stabilizer, thickening agent
203.	451(ii)	Pentakali triphosphat	Pentapotassium triphosphate	Acidity regulator, emulsifier, emulsifying salt, humectant, sequestrant, stabilizer, thickening agent
204.	452(i)	Natri polyphosphat	Sodium polyphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, humectant, leavening agent, stabilizer, thickening agent
205.	452(ii)	Kali polyphosphat	Potassium polyphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, humectant, leavening agent, stabilizer, thickening agent
206.	452(iii)	Natri calci polyphosphat	Sodium calcium polyphosphate	Acidity regulator, sequestrant, emulsifier, humectant, leavening

				agent, stabilizer
207.	452(iv)	Calci polyphosphat	Calcium polyphosphate	Sequestrant, acidity regulator, emulsifier, emulsifying salt, humectant, leavening agent, stabilizer, thickening agent
208.	452(v)	Amoni polyphosphat	Ammonium polyphosphate	Acidity regulator, emulsifier, emulsifying salt, sequestrant, humectant, stabilizer, thickening agent
209.	455	Mannoprotein của nấm men	Yeast mannoproteins	Stabilizer
210.	457	alpha-Cyclodextrin	Cyclodextrin, <i>alpha</i> -	Thickening agent, stabilizer
211.	458	gamma- Cyclodextrin	Cyclodextrin, <i>gamma</i> -	Thickening agent, stabilizer
212.	459	beta-Cyclodextrin	Cyclodextrin, <i>beta</i> -	Carrier, stabilizer, thickening agent
213.	460(i)	Cellulose vi tinh thể	Microcrystalline cellulose	Bulking agent, anticaking agent, carrier, glazing agent, emulsifier, foaming agent, stabilizer, thickening agent
214.	460(ii)	Bột cellulose	Powdered cellulose	Bulking agent, anticaking agent, emulsifier, glazing agent, humectant, stabilizer, thickening agent
215.	461	Methyl cellulose	Methyl cellulose	Bulking agent, glazing agent, emulsifier, stabilizer, thickening agent
216.	462	Ethyl cellulose	Ethyl cellulose	Binding agent, thickening agent, bulking agent, carrier, glazing agent
217.	463	Hydroxypropyl cellulose	Hydroxypropyl cellulose	Thickening agent, stabilizer, emulsifier, foaming agent, glazing agent
218.	464	Hydroxypropyl methyl cellulose	Hydroxypropyl methyl cellulose	Emulsifier, glazing agent, stabilizer, thickening agent, bulking agent
219.	465	Methyl ethyl cellulose	Methyl ethyl cellulose	Emulsifier, foaming agent, stabilizer, thickening agent

220.	466	Natri carboxymethyl cellulose	Sodium carboxymethyl cellulose	Thickening agent, bulking agent, emulsifier, glazing agent, stabilizer, humectant, firming agent, gelling agent
221.	467	Ethyl hydroxyethyl cellulose	Ethyl hydroxyethyl cellulose	Emulsifier, stabilizer, thickening agent
222.	468	Cross-linked natri carboxymethyl cellulose	Cross-linked sodium carboxymethyl cellulose	Stabilizer, thickening agent
223.	469	Natri carboxymethyl cellulose, thủy phân bằng enzym	Sodium carboxymethyl cellulose, enzymatically hydrolysed	Stabilizer, thickening agent
224.	470(i)	Muối của acid myristic, palmitic và stearic (NH ₄ , Ca, K và Na)	Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium	Anticaking agent, emulsifier, stabilizer
225.	470(ii)	Muối của acid oleic (Ca, Na và K)	Salts of oleic acid with calcium, potassium and sodium	Anticaking agent, emulsifier, stabilizer
226.	470(iii)	Magnesi stearat	Magnesium stearate	Anticaking agent, emulsifier, thickening agent
227.	471	Mono và diglycerid của các acid béo	Mono- and Di- glycerides of fatty acids	Emulsifier, antifoaming agent, glazing agent, stabilizer
228.	472a	Este của glycerol với acid acetic và acid béo	Acetic and fatty acid esters of glycerol	Emulsifier, sequestrant, stabilizer
229.	472b	Este của glycerol với acid lactic và acid béo	Lactic and fatty acid esters of glycerol	Emulsifier, sequestrant, stabilizer
230.	472c	Este của glycerol với acid citric và acid béo	Citric and fatty acid esters of glycerol	Emulsifier, antioxidant, flour treatment agent, sequestrant, stabilizer
231.	472e	Este của glycerol với acid diacetyl tartaric và acid béo	Diacetyltartaric and fatty acid esters of glycerol	Emulsifier, sequestrant, stabilizer
232.	473	Este của sucrose với các acid béo	Sucrose esters of fatty acids	Emulsifier, foaming agent, glazing agent, stabilizer
233.	473a	Oligoeste typ 1 và typ 2 của sucrose	Sucrose oligoesters type I and type II	Emulsifier, glazing agent, stabilizer
234.	474	Sucroglycerid	Sucroglycerides	Emulsifier
235.	475	Este của polyglycerol	Polyglycerol esters of	Emulsifier, stabilizer

		với các acid béo	fatty acids	
236.	476	Este của polyglycerol với acid ricinoleic	Polyglycerol esters of interesterified ricinoleic acid	Emulsifier
237.	477	Este của propylen glycol với acid béo	Propylene glycol esters of fatty acids	Emulsifier
238.	479	Dầu đậu nành oxy hóa nhiệt tương tác với mono và diglycerid của các acid béo	Thermally oxydized soya bean oil interacted with mono- and diglycerides of fatty acids	Emulsifier
239.	480	Dioctyl natri sulfosuccinat	Dioctyl sodium sulfosuccinate	Emulsifier, humectant
240.	481(i)	Natri stearoyl lactylat	Sodium stearoyl lactylate	Emulsifier, flour treatment agent, foaming agent, stabilizer
241.	482(i)	Calci stearoyl lactylat	Calcium stearoyl lactylate	Emulsifier, flour treatment agent, foaming agent, stabilizer
242.	484	Stearyl citrat	Stearyl citrate	Emulsifier, antioxidant, sequestrant
243.	491	Sorbitan monostearat	Sorbitan monostearate	Emulsifier, stabilizer
244.	492	Sorbitan tristearat	Sorbitan tristearate	Emulsifier, stabilizer
245.	493	Sorbitan monolaurat	Sorbitan monolaurate	Emulsifier, stabilizer
246.	494	Sorbitan monooleat	Sorbitan monooleate	Emulsifier, stabilizer
247.	495	Sorbitan monopalmitat	Sorbitan monopalmitate	Emulsifier
248.	500(i)	Natri carbonat	Sodium carbonate	Leavening agent, acidity regulator, anticaking agent, emulsifying salt, stabilizer, thickening agent
249.	500(ii)	Natri hydro carbonat	Sodium hydrogen carbonate	Stabilizer, acidity regulator, anticaking agent, leavening agent, thickening agent
250.	500(iii)	Natri sesquicarbonat	Sodium sesquicarbonate	Acidity regulator, anticaking agent, leavening agent
251.	501(i)	Kali carbonat	Potassium carbonate	Stabilizer, acidity regulator
252.	501(ii)	Kali hydro carbonat	Potassium hydrogen carbonate	Acidity regulator, leavening agent, stabilizer

253.	503(i)	Amoni carbonat	Ammonium carbonate	Leavening agent, acidity regulator
254.	503(ii)	Amoni hydro carbonat	Ammonium hydrogen carbonate	Acidity regulator, leavening agent
255.	504(i)	Magnesi carbonat	Magnesium carbonate	Acidity regulator, anticaking agent,color retention agent
256.	504(ii)	Magnesi hydroxyd carbonat	Magnesium hydroxide carbonate	Acidity regulator, anticaking agent, carrier, color retention agent
257.	507	Acid hydrocloric	Hydrochloric acid	Acidity regulator
258.	508	Kali clorid	Potassium chloride	Stabilizer, flavor enhancer, firming agent, thickening agent
259.	509	Calci clorid	Calcium chloride	Firming agent, stabilizer, thickening agent
260.	510	Amoni clorid	Ammonium chloride	Flour treatment agent
261.	511	Magnesi clorid	Magnesium chloride	Color retention agent, stabilizer, firming agent
262.	512	Thiếc clorid	Stannous chloride	Antioxidant, color retention agent
263.	514(i)	Natri sulfat	Sodium sulfate	Acidity regulator
264.	514(ii)	Natri hydro sulfat	Sodium hydrogen sulfate	Acidity regulator
265.	515(i)	Kali sulfat	Potassium sulfate	Acidity regulator
266.	515(ii)	Kali hydro sulfat	Potassium hydrogen sulfate	Acidity regulator
267.	516	Calci sulfat	Calcium sulfate	Firming agent, acidity regulator, flour treatment agent, sequestrant, stabilizer
268.	518	Magnesi sulfat	Magnesium sulfate	Firming agent, flavor enhancer
269.	523	Nhôm amoni sulfat	Aluminium ammonium sulfate	Firming agent, acidity regulator, color retention agent, leavening agent, stabilizer
270.	524	Natri hydroxyd	Sodium hydroxide	Acidity regulator
271.	525	Kali hydroxyd	Potassium hydroxide	Acidity regulator
272.	526	Calci hydroxyd	Calcium hydroxide	Acidity regulator, firming

				agent
273.	527	Amoni hydroxyd	Ammonium hydroxide	Acidity regulator
274.	528	Magnesi hydroxyd	Magnesium hydroxide	Acidity regulator, color retention agent
275.	529	Oxyd calci	Calcium oxide	Acidity regulator, flour treatment agent
276.	530	Oxyd magnesi	Magnesium oxide	Anticaking agent, acidity regulator
277.	535	Natri ferrocyanid	Sodium ferrocyanide	Anticaking agent
278.	536	Kali ferrocyanid	Potassium ferrocyanide	Anticaking agent
279.	538	Calci ferrocyanid	Calcium ferrocyanide	Anticaking agent
280.	539	Natri thiosulfat	Sodium thiosulfate	Antioxidant, sequestrant
281.	541(i)	Natri nhôm phosphat, dạng acid	Sodium aluminium phosphate, acidic	Acidity regulator, emulsifier, emulsifying salt, leavening agent, stabilizer, thickening agent
282.	541(ii)	Natri nhôm phosphat, dạng bazo	Sodium aluminium phosphate, basic	Acidity regulator, emulsifier, emulsifying salt, stabilizer, thickening agent
283.	542	Bone phosphat	Bone phosphate	Anticaking agent, emulsifier, humectant, stabilizer, thickening agent
284.	551	Dioxyd silic vô định hình	Silicon dioxide, amorphous	Anticaking agent, antifoaming agent, carrier
285.	552	Calci silicat	Calcium silicate	Anticaking agent
286.	553(i)	Magnesi silicat tổng hợp	Magnesium silicate, synthetic	Anticaking agent
287.	553(iii)	Bột talc	Talc	Anticaking agent, glazing agent, thickening agent
288.	554	Natri nhôm silicat	Sodium aluminium silicate	Anticaking agent
289.	575	Glucono delta- lacton	Glucono delta- lactone	Acidity regulator, leavening agent, sequestrant
290.	576	Natri gluconat	Sodium gluconate	Sequestrant, thickening agent, stabilizer
291.	577	Kali gluconat	Potassium gluconate	Sequestrant, acidity regulator

292.	578	Calci gluconat	Calcium gluconate	Acidity regulator, firming agent, sequestrant
293.	579	S��t (II) gluconat	Ferrous gluconate	Color retention agent
294.	580	Magnesi gluconat	Magnesium gluconate	Acidity regulator, firming agent, flavor enhancer
295.	585	S��t (II) lactat	Ferrous lactate	Color retention agent
296.	586	4-hexylresorcinol	Hexylresorcinol, 4-	Antioxidant, color retention agent
297.	620	Acid glutamic (L(+)-)	Glutamic acid, L(+)-	Flavor enhancer
298.	621	Mononatri L- glutamat	Monosodium L- glutamate	Flavor enhancer
299.	622	Monokali L- glutamat	Monopotassium L- glutamate	Flavor enhancer
300.	623	Calci di-L- glutamat	Calcium di-L- glutamate	Flavor enhancer
301.	624	Monoamoni glutamat	Monoammonium glutamate	Flavor enhancer
302.	625	Magnesi di-L glutamat	Magnesium di-L glutamate	Flavor enhancer
303.	626	Acid guanylic, 5'-	Guanylic acid, 5'-	Flavor enhancer
304.	627	Dinatri 5'-guanylat	Disodium 5'- guanylate	Flavor enhancer
305.	628	Dikali 5'-guanylat	Dipotassium 5'- guanylate	Flavor enhancer
306.	629	Calci 5'-guanylat	Calcium 5'- guanylate	Flavor enhancer
307.	630	Acid inosinic, 5'-	Inosinic acid, 5'-	Flavor enhancer
308.	631	Dinatri 5'-inosinat	Disodium 5'- inosinate	Flavor enhancer
309.	632	Kali 5'-inosinat	Potassium 5'- inosinate	Flavor enhancer
310.	633	Calci 5'-inosinat	Calcium 5'-inosinate	Flavor enhancer
311.	634	Calci 5'- ribonucleotid	Calcium 5'- ribonucleotides	Flavor enhancer
312.	635	Dinatri 5'- ribonucleotid	Disodium 5'- ribonucleotides	Flavor enhancer
313.	636	Maltol	Maltol	Flavor enhancer
314.	637	Ethyl maltol	Ethyl maltol	Flavor enhancer
315.	639	DL-Alanin	Alanine, DL-	Flavor enhancer
316.	640	Glycin	Glycine	Flavor enhancer
317.	900a	Polydimethyl siloxan	Polydimethyl siloxane	Anticaking agent,

				antifoaming agent, emulsifier
318.	901	Sáp ong	Beeswax	Glazing agent, carrier, emulsifier, stabilizer, thickening agent
319.	902	Sáp candelilla	Candelilla wax	Glazing agent, carrier, emulsifier, thickening agent
320.	903	Sáp carnauba	Carnauba wax	Bulking agent, acidity regulator, anticaking agent, carrier, glazing agent
321.	904	Shellac tẩy trắng	Shellac, bleached	Glazing agent
322.	905c(i)	Sáp vi tinh thể	Microcrystalline wax	Glazing agent, antifoaming agent
323.	905d	Dầu khoáng, độ nhớt cao	Mineral oil, high viscosity	Glazing agent, antifoaming agent
324.	905e	Dầu khoáng, độ nhớt trung bình	Mineral oil, medium viscosity	Glazing agent
325.	907	Hydrogenated poly-1- decenes	Hydrogenated poly- 1- decenes	Glazing agent
326.	E914	Sáp oxidised polyethylene	Oxidised polyethylene wax	Glazing agent
327.	925	Khí clor	Chlorine	Flour treatment agent
328.	927a	Azodicarbonamid	Azodicarbonamide	Flour treatment agent
329.	928	Benzoyl peroxyd	Benzoyl peroxide	Bleaching agent, flour treatment agent, preservative
330.	930	Calci peroxyd	Calcium peroxide	Flour treatment agent
331.	941	Khí nito	Nitrogen	Foaming agent, propellant, packaging gas
332.	942	Khí nito oxyd	Nitrous oxide	Propellant, foaming agent, packaging gas, antioxidant
333.	950	Acesulfam kali	Acesulfame potassium	Sweetener, stabilizer
334.	951	Aspartam	Aspartame	Flavor enhancer, sweetener
335.	952(i)	Acid cyclamic	Cyclamic acid	Sweetener
336.	952(ii)	Calci cyclamat	Calcium cyclamate	Sweetener

337.	952(iv)	Natri cyclamat	Sodium cyclamate	Sweetener
338.	953	Isomalt (Hydrogenated isomaltulose)	Isomalt (Hydrogenated isomaltulose)	Sweetener, anticaking agent, bulking agent, glazing agent, stabilizer, thickening agent
339.	954(i)	Saccharin	Saccharin	Sweetener
340.	954(ii)	Calci saccharin	Calcium saccharin	Sweetener
341.	954(iii)	Kali saccharin	Potassium saccharin	Sweetener
342.	954(iv)	Natri saccharin	Sodium saccharin	Sweetener
343.	955	Sucralose (Triclorogalactosucrose)	Sucralose (Trichlorogalactosucrose)	Sweetener, stabilizer
344.	956	Alitam	Alitame	Sweetener
345.	957	Thaumatococin	Thaumatococin	Flavor enhancer, sweetener
346.	960a	Steviol glycosid từ <i>Stevia rebaudiana</i> Bertoni (Steviol glycosid từ Stevia)	Steviol glycosides from <i>Stevia rebaudiana</i> Bertoni (Steviol glycosides from Stevia)	Sweetener
347.	960b(i)	Rebaudiosid A từ multiple gene donors expressed in <i>Yarrowia lipolytica</i>	Rebaudioside A from multiple gene donors expressed in <i>Yarrowia lipolytica</i>	Sweetener
348.	961	Neotam	Neotame	Flavor enhancer, sweetener
349.	962	Muối aspartam-acesulfam	Aspartame-acesulfame salt	Sweetener
350.	964	Siro polyglycitol	Polyglycitol syrup	Sweetener
351.	965(i)	Maltitol	Maltitol	Bulking agent, emulsifier, humectant, stabilizer, sweetener thickening agent
352.	965(ii)	Siro maltitol	Maltitol syrup	Bulking agent, emulsifier, humectant, stabilizer, sweetener thickening agent
353.	966	Lactitol	Lactitol	Emulsifier, sweetener, thickening agent
354.	967	Xylitol	Xylitol	Emulsifier, humectant, stabilizer, sweetener thickening agent

355.	968	Erythritol	Erythritol	Flavor enhancer, humectant, sweetener
356.	999(i)	Chất chiết xuất từ quillaia nhóm I	Quillaia extract type I	Foaming agent, emulsifier
357.	999(ii)	Chất chiết xuất từ quillaia nhóm II	Quillaia extract type II	Foaming agent, emulsifier
358.	1100(i)	alpha-Amylase từ <i>Aspergillus orysee</i> var.	alpha-Amylase from <i>Aspergillus oryzae</i> var.	Flour treatment agent
359.	1100(ii)	alpha-Amylase từ <i>Bacillus stearothermophilus</i>	alpha-Amylase from <i>Bacillus stearothermophilus</i>	Flour treatment agent
360.	1100(iii)	alpha-Amylase từ <i>Bacillus subtilis</i>	alpha-Amylase from <i>Bacillus subtilis</i>	Flour treatment agent
361.	1100(iv)	alpha-Amylase từ <i>Bacillus megaterium</i> expressed in <i>Bacillus subtilis</i>	alpha-Amylase from <i>Bacillus megaterium</i> expressed in <i>Bacillus subtilis</i>	Flour treatment agent
362.	1100(v)	alpha-Amylase từ <i>Bacillus stearothermophilus</i> expressed in <i>Bacillus subtilis</i>	alpha-Amylase from <i>Bacillus stearothermophilus</i> expressed in <i>Bacillus subtilis</i>	Flour treatment agent
363.	1100(vi)	Carbohydrase từ <i>Bacillus licheniformis</i>	Carbohydrase from <i>Bacillus licheniformis</i>	Flour treatment agent
364.	1101(i)	Protease từ <i>Aspergillus orysee</i> var.	Protease from <i>Aspergillus oryzae</i> var.	Flavor enhancer, flour treatment agent, stabilizer
365.	1101(ii)	Papain	Papain	Flavor enhancer
366.	1101(iii)	Bromelain	Bromelain	Flavor enhancer, flour treatment agent, stabilizer
367.	1102	Glucose oxydase	Glucose oxidase	Antioxidant
368.	1104	Lipases	Lipases	Flavor enhancer
369.	1105	Lysozym	Lysozyme	Preservative
370.	1200	Polydextrose	Polydextroses	Bulking agent, glazing agent, humectant, stabilizer, thickening agent
371.	1201	Polyvinyl pyrrolidon	Polyvinyl pyrrolidone	Stabilizer, emulsifier, glazing agent, thickening agent
372.	1202	Polyvinyl pyrrolidon, không tan	Polyvinyl pyrrolidone, insoluble	Color retention agent, stabilizer

373.	1203	Polyvinyl alcohol	Polyvinyl alcohol	Glazing agent, thickening agent
374.	1204	Pullulan	Pullulan	Glazing agent, thickening agent
375.	1209	Copolyme ghép của Polyvinyl alcohol (PVA) - Polyethylen glycol (PEG)	Polyvinyl alcohol (PVA) – polyethylene glucol (PEG) graft co-polymer	Glazing agent, stabilizer, binding agent
376.	1210	Natri polyacrylat	Sodium polyacrylate	Stabilizer
377.	1400	Dextrin, tinh bột rang	Dextrins, roasted starch	Carrier, emulsifier, stabilizer, thickening agent
378.	1401	Tinh bột đã được xử lý bằng acid	Acid-treated starch	Emulsifier, stabilizer, thickening agent
379.	1402	Tinh bột đã được xử lý bằng kiềm	Alkaline treated starch	Emulsifier, stabilizer, thickening agent
380.	1403	Tinh bột đã khử màu	Bleached starch	Emulsifier, stabilizer, thickening agent
381.	1404	Tinh bột xử lý oxy hóa	Oxydized starch	Emulsifier, stabilizer, thickening agent
382.	1405	Tinh bột, xử lý bằng enzym	Starches, enzyme treated	Emulsifier, stabilizer, thickening agent
383.	1410	Monostarch phosphat	Monostarch phosphate	Emulsifier, stabilizer, thickening agent
384.	1412	Distarch phosphat	Distarch phosphate	Emulsifier, stabilizer, thickening agent
385.	1413	Phosphated distarch phosphat	Phosphated distarch phosphate	Emulsifier, stabilizer, thickening agent
386.	1414	Acetylated distarch phosphat	Acetylated distarch phosphate	Emulsifier, stabilizer, thickening agent
387.	1420	Starch acetate	Starch acetate	Emulsifier, stabilizer, thickening agent
388.	1421	Starch acetate este hóa với vinyl acetate	Starch acetate esterified with vinyl acetate	Flour treatment agent
389.	1422	Acetylated distarch adipat	Acetylated distarch adipate	Emulsifier, stabilizer, thickening agent
390.	1440	Hydroxypropyl starch	Hydroxypropyl starch	Emulsifier, stabilizer, thickening agent
391.	1442	Hydroxypropyl distarch phosphat	Hydroxypropyl distarch phosphate	Anticaking agent, emulsifier, stabilizer,

				thickening agent
392.	1450	Starch natri octenyl succinat	Starch sodium octenyl succinate	Emulsifier, stabilizer, thickening agent
393.	1451	Acetylated oxydized starch	Acetylated oxidized starch	Emulsifier, stabilizer, thickening agent
394.	1503	Dầu Castor	Castor oil	Anticaking agent, carrier, emulsifier, glazing agent
395.	1504(i)	Cyclotetraglucose	Cyclotetraglucose	Carrier
396.	1504(ii)	Siro cyclotetraglucose	Cyclotetraglucose syrup	Carrier
397.	1505	Triethyl citrat	Triethyl citrate	Carrier, emulsifier, stabilizer, sequestrant
398.	1518	Triacetin	Triacetin	Carrier, emulsifier, humectant
399.	1520	Propylen glycol	Propylene glycol	Emulsifier, carrier, glazing agent, humectant
400.	1521	Polyethylen glycol	Polyethylene glycol	Antifoaming agent, carrier, emulsifier, glazing agent, thickening agent

APPENDIX 2A

MAXIMUM USE LEVEL OF FOOD ADDITIVES

(Enclosed with the Circular No. 24/2019/TT-BYT dated August 30, 2019)

CURCUMIN

INS Name of additive

100(i) Curcumin

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavored fluid milk drinks	150	52, 402
12.5	Soups and broths	50	99

RIBOFLAVINS

INS Name of additive

101(i) Riboflavin, synthetic

101(ii) Riboflavin 5'-phosphate sodium

101(iii) Riboflavin from Bacillus subtilis

Food	Food category	ML	Remark
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category No.		(mg/ kg)	
01.1.4	Flavoured fluid milk drinks	300	52
01.3.2	Beverage whiteners	300	
01.5.2	Milk and cream powder analogues	300	
01.6.1	Unripened cheese	300	
01.6.2.1	Ripened cheese (including rind)	300	
01.6.2.2	Rind of ripened cheese	300	
01.6.4	Processed cheese	300	
01.6.5	Cheese analogues	300	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	300	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	300	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	300	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300	
03.0	Edible ices, including sherbet and sorbet	500	
04.1.1.2	Surface-treated fresh fruit	300	4 & 16
04.1.2.4	Canned or bottled (pasteurized) fruit	300	267
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	300	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300	
04.1.2.10	Fermented fruit products	500	
04.1.2.11	Fruit fillings for pastries	300	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300	4 & 16
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	300	92

04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500	
05.1.5	Imitation chocolate, chocolate substitute products	1000	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	XS309R
05.3	Chewing gum	1000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1000	
06.3	Breakfast cereals, including rolled oats	300	
06.4.3	Pre-cooked pastas and noodles and like products	300	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	300	
06.6	Batters (e.g. for breading or batters for fish or poultry)	300	
06.8.1	Soybean-based beverages	50	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	1000	16, XS96, XS97
08.3	Processed comminuted meat, poultry, and game products	1000	16, XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	1000	16
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	300	16
09.2.4.1	Cooked fish and fish products	300	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	300	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300	16

09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	300	16
09.3.2	Fish and fish products, including mollusks, crustaceans,	300	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	300	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	300	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	300	4
10.4	Egg-based desserts (e.g. custard)	300	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	
12.2.2	Seasonings and condiments	350	
12.4	Mustards	300	
12.5	Soups and broths	200	344
12.6	Sauces and like products	350	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	300	
12.9.1	Fermented soybean paste (e.g., miso)	30	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	300	
13.4	Dietetic formulae for slimming purposes and weight reduction	300	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or	50	

	"electrolyte" drinks and particulated drinks	
14.2.2	Cider and perry	300
14.2.4	Wines (other than grape)	300
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	100
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	1000

TARTRAZINE

INS Name of additive

102 Tartrazin

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	300	52
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100	382, XS167, XS189, XS222, XS236, XS244
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	30	435, XS3, XS70, XS90, XS94 & XS119
12.5	Soups and broths	50	99

QUINOLINE YELLOW

INS Name of additive

104 Quinolin yellow

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	10	52
12.5	Soups and broths	50	99

SUNSET YELLOW FCF

INS Name of additive

110 Sunset yellow FCF

Food	Food category	ML	Remark
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category No.		(mg/ kg)	
01.1.4	Flavoured fluid milk drinks	300	52
01.6.1	Unripened cheese	300	3
01.6.2.2	Rind of ripened cheese	300	
01.6.4	Processed cheese	200	3
01.6.5	Cheese analogues	300	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	300	
02.1.3	Lard, tallow, fish oil, and other animal fats	300	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	50	
03.0	Edible ices, including sherbet and sorbet	50	
04.1.2.5	Jams, jellies, marmelades	300	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	300	
04.1.2.7	Candied fruit	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	50	
04.1.2.11	Fruit fillings for pastries	300	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300	4 & 16
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	50	92
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200	92
05.1.4	Cocoa and chocolate products	400	183
05.1.5	Imitation chocolate, chocolate substitute products	300	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	300	

06.3	Breakfast cereals, including rolled oats	300	
06.4.3	Pre-cooked pastas and noodles and like products	300	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	50	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50	
08.1	Fresh meat, poultry, and game	300	4 & 16
08.2	Processed meat, poultry, and game products in whole pieces or cuts	300	16, XS96 & XS97
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	300	16
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	135	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	300	16
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	300	16, XS88, XS89 & XS98
08.3.3	Frozen processed comminuted meat, poultry, and game products	300	16
08.4	Edible casings (e.g. sausage casings)	300	16
09.1.1	Fresh fish	300	4, 16 & 50
09.1.2	Fresh mollusks, crustaceans, and echinoderms	300	4, 16, XS292, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	300	16 & 95
09.2.4.1	Cooked fish and fish products	300	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and	300	16

	echinoderms		
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100	382, XS167, XS189, XS222, XS236, XS244
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	300	16
09.3.2	Fish and fish products, including mollusks, crustaceans,	300	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	300	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	300	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300	95, 435, XS3, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	50	
12.2.2	Seasonings and condiments	300	
12.4	Mustards	300	
12.5	Soups and broths	50	
12.6	Sauces and like products	300	XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	127
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	

CARMINES

INS Name of additive

120 Carmine

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52
01.6.2.1	Ripened cheese (including rind)	125	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	100	
01.6.5	Cheese analogues	100	3 & 178
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	150	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500	178
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	500	178
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150	
03.0	Edible ices, including sherbet and sorbet	150	
04.1.1.2	Surface-treated fresh fruit	500	4 & 16
04.1.2.4	Canned or bottled (pasteurized) fruit	200	104
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150	
04.1.2.11	Fruit fillings for pastries	300	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	4 & 16
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500	178
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed	200	92

	pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5		
05.1.2	Cocoa mixes (syrops)	300	
05.1.5	Imitation chocolate, chocolate substitute products	300	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	500	178
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	
06.3	Breakfast cereals, including rolled oats	200	
06.4.3	Pre-cooked pastas and noodles and like products	100	153 & 178
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	150	
06.6	Batters (e.g. for breading or batters for fish or poultry)	500	
06.8.1	Soybean-based beverages	100	178
07.1.2	Crackers, excluding sweet crackers	200	178
07.1.4	Bread-type products, including bread stuffing and bread crumbs	500	178
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	500	4 & 16
08.1.2	Comminuted meat, poultry, and game	100	4, 16 & 117
08.2	Processed meat, poultry, and game products in whole pieces or cuts	500	16, XS96 & XS97
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	200	118
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	100	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	100	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	100	XS88, XS89 & XS98
08.3.3	Frozen processed comminuted meat, poultry, and game products	500	16
08.4	Edible casings (e.g. sausage casings)	500	16
09.1.1	Fresh fish	300	4, 16 & 50
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500	4, 16, XS292, XS312, XS315

09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	100	95, 178, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500	16, 95, 178, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500	16
09.2.4.1	Cooked fish and fish products	500	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500	16, 95 & 178
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500	16
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	500	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	100	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	16, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	150	
12.2.2	Seasonings and condiments	500	
12.4	Mustards	300	

12.5	Soups and broths	50	
12.6	Sauces and like products	500	XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	178
14.2.1	Beer and malt beverages	100	
14.2.2	Cider and perry	200	
14.2.4	Wines (other than grape)	200	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	178
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	
15.3	Snacks - fish-based	200	178

AZORUBINE (CARMOISINE)

INS	Name of additive		
122	Azorubine (Carmoisine)		
Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52
12.5	Soups and broths	50	99

AMARANTH

INS	Name of additive		
123	Amaranth		
Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	50	52
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	30	435, XS3, XS70,

PONCEAU 4R (COCHINEAL RED A)

INS	Name of additive		
124	Ponceau 4R (Cochineal red A)		
Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52
01.6.1	Unripened cheese	100	3
01.6.2.2	Rind of ripened cheese	100	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	100	
01.6.5	Cheese analogues	100	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	150	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	50	
03.0	Edible ices, including sherbet and sorbet	50	
04.1.2.4	Canned or bottled (pasteurized) fruit	300	267
04.1.2.5	Jams, jellies, marmelades	100	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	50	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	50	
04.1.2.11	Fruit fillings for pastries	50	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500	
05.1.4	Cocoa and chocolate products	300	183
05.1.5	Imitation chocolate, chocolate substitute products	50	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and	50	

	sweet sauces		
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	50	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50	
08.4	Edible casings (e.g. sausage casings)	500	16
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	30	395, XS 36, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500	16, 95 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500	16 & 95
09.2.4.1	Cooked fish and fish products	500	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.3	Salmon substitutes, caviar, and other fish roe products	500	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	100	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	435, XS3, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	500	4
10.4	Egg-based desserts (e.g. custard)	50	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	159
12.2.2	Seasonings and condiments	500	
12.4	Mustards	300	
12.5	Soups and broths	50	

12.6	Sauces and like products	50	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	

ERYTHROSINE

INS Name of additive

127 Erythrosine

Food category No.	Food category	ML (mg/ kg)	Remark
04.1.2.7	Candied fruit	200	54
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	30	
05.3	Chewing gum	50	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
08.2	Processed meat, poultry and game products in whole pieces or cuts	30	4, 16, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	30	4, 290 & XS88

ALLURA RED AC

INS Name of additive

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	300	52
01.6.2.2	Rind of ripened cheese	100	
01.6.4	Processed cheese	100	
01.6.5	Cheese analogues	100	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	300	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300	
03.0	Edible ices, including sherbet and sorbet	150	
04.1.2.5	Jams, jellies, marmelades	100	
04.1.2.7	Candied fruit	300	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300	
04.1.2.11	Fruit fillings for pastries	300	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	200	92
05.1.3	Cocoa-based spreads, including fillings	300	XS86
05.1.4	Cocoa and chocolate products	300	183
05.1.5	Imitation chocolate, chocolate substitute products	300	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	300	
06.3	Breakfast cereals, including rolled oats	300	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca	300	

	pudding)		
07.1.2	Crackers, excluding sweet crackers	300	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	300	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300	
08.3.2	Heat-treated processed comminuted meat, poultry and game products	25	XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	300	16
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.4.1	Cooked fish and fish products	300	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300	382, XS167, XS189, XS222, XS236, XS244
09.3.3	Salmon substitutes, caviar, and other fish roe products	300	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	300	
10.1	Fresh eggs	100	4
10.4	Egg-based desserts (e.g. custard)	300	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	
12.2.2	Seasonings and condiments	300	
12.4	Mustards	300	
12.5	Soups and broths	300	337
12.6	Sauces and like products	300	XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	

13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300	127
14.2.2	Cider and perry	200	
14.2.4	Wines (other than grape)	200	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	

INDIGOTINE (INDIGO CARMINE)

INS Name of additive

132 Indigotine (Indigo carmine)

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	300	52, 402
01.6.1	Unripened cheese	200	3
01.6.2.2	Rind of ripened cheese	100	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	100	
01.6.5	Cheese analogues	200	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	150	
02.1.3	Lard, tallow, fish oil, and other animal fats	300	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	300	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150	
03.0	Edible ices, including sherbet and sorbet	150	
04.1.2.5	Jams, jellies, marmelades	300	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	300	
04.1.2.7	Candied fruit	200	

04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	150	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150	
04.1.2.11	Fruit fillings for pastries	150	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	200	92
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	300	
05.1.4	Cocoa and chocolate products	450	183
05.1.5	Imitation chocolate, chocolate substitute products	300	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	300	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	150	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200	
09.1.1	Fresh fish	300	4, 16 & 50
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.4.1	Cooked fish and fish products	300	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	300	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks,	300	

	crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3		
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300	XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	300	4
10.4	Egg-based desserts (e.g. custard)	300	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	
12.2.2	Seasonings and condiments	300	
12.4	Mustards	300	
12.5	Soups and broths	50	
12.6	Sauces and like products	300	XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	
14.2.2	Cider and perry	200	
14.2.4	Wines (other than grape)	200	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	

BRILLIANT BLUE FCF

INS Name of additive

133 Brilliant blue FCF

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52

01.6.2.2	Rind of ripened cheese	100	
01.6.5	Cheese analogues	100	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	150	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	100	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150	
03.0	Edible ices, including sherbet and sorbet	150	
04.1.2.4	Canned or bottled (pasteurized) fruit	200	267
04.1.2.5	Jams, jellies, marmelades	100	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	100	
04.1.2.7	Candied fruit	100	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150	
04.1.2.11	Fruit fillings for pastries	250	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	100	92
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100	92
05.1.3	Cocoa-based spreads, including fillings	100	XS86
05.1.4	Cocoa and chocolate products	100	183
05.1.5	Imitation chocolate, chocolate substitute products	100	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and	500	

	sweet sauces		
06.3	Breakfast cereals, including rolled oats	200	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	150	
07.1	Bread and ordinary bakery wares	100	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200	
08.0	Meat and meat products, including poultry and game	100	4, 16, XS88, XS89, XS96 XS97 & XS98
09.1.1	Fresh fish	300	4, 16 & 50
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500	4, 16, XS292, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500	16
09.2.4.1	Cooked fish and fish products	100	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	100	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500	16
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500	16
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	500	XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	XS3, XS37, XS70, XS90,

			XS94, XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	150	
12.2.2	Seasonings and condiments	100	
12.4	Mustards	100	
12.5	Soups and broths	50	
12.6	Sauces and like products	100	XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	
14.2.2	Cider and perry	200	
14.2.4	Wines (other than grape)	200	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	

CHLOROPHYLLS AND CHLOROPHYLLINS, COPPER COMPLEXES

INS	Name of additive		
141(i)	Chlorophylls, copper complexes		
141(ii)	Chlorophyllin copper complexes (potassium and sodium salts)		

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	50	52 & 190
01.6.1	Unripened cheese	50	
01.6.2.1	Ripened cheese (including rind)	15	
01.6.2.2	Rind of ripened cheese	75	
01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	50	

01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	50	
01.6.5	Cheese analogues	50	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	500	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	500	
03.0	Edible ices, including sherbet and sorbet	500	
04.1.2.3	Fruit in vinegar, oil, or brine	100	62
04.1.2.4	Canned or bottled (pasteurized) fruit	100	62, 267
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	150	
04.1.2.7	Candied fruit	250	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	62 & 182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150	
04.1.2.10	Fermented fruit products	100	62
04.1.2.11	Fruit fillings for pastries	100	62
04.1.2.12	Cooked fruit	100	62
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	100	62
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	100	62 & 92
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100	62
04.2.2.8	Cooked or fried vegetables (including mushrooms and	100	62
05.1.2	Cocoa mixes (syrops)	6,4	62
05.1.3	Cocoa-based spreads, including fillings	6,4	62 & XS86
05.1.4	Cocoa and chocolate products	700	183
05.1.5	Imitation chocolate, chocolate substitute products	700	
05.2.1	Hard candy	700	
05.2.2	Soft candy	100	XS309R

05.2.3	Nougats and marzipans	100	
05.3	Chewing gum	700	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
06.4.3	Pre-cooked pastas and noodles and like products	100	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	75	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	6,4	62
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	75	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	40	95
09.2.4.1	Cooked fish and fish products	30	62 & 95
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	40	95
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200	XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	40	16
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	40	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	200	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	75	95
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	300	2
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	64	62
12.2.2	Seasonings and condiments	500	
12.4	Mustards	500	
12.5	Soups and broths	400	342

12.6	Sauces and like products	100	XS302
13.6	Food supplements	500	3
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	350	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	
15.3	Snacks - fish-based	350	

FAST GREEN FCF

INS Name of additive

143 Fast green FCF

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	100	52
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	2
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100	
03.0	Edible ices, including sherbet and sorbet	100	
04.1.2.4	Canned or bottled (pasteurized) fruit	200	267
04.1.2.5	Jams, jellies, marmelades	400	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	100	
04.1.2.7	Candied fruit	100	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100	
04.1.2.11	Fruit fillings for pastries	100	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products,	100	

	excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3		
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	100	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
06.4.3	Pre-cooked pastas and noodles and like products	290	194
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	100	
07.0	Bakery wares	100	
08.1	Fresh meat, poultry, and game	100	3, 4 & 16
08.2	Processed meat, poultry and game products in whole pieces or cuts	100	3, 4, XS96 & XS97
08.4	Edible casings (e.g. sausage casings)	100	3 & 4
09.2.4.1	Cooked fish and fish products	100	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100	XS167, XS189, XS222, XS236, XS244, XS311
09.3.3	Salmon substitutes, caviar, and other fish roe products	100	XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	100	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	100	
12.2.2	Seasonings and condiments	100	
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	100	
13.6	Food supplements	600	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	100	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous	100	

cooler-type beverages, low alcoholic refreshers)

CARAMEL I - PLAIN CARAMEL

INS Name of additive

150a Caramel I (plain caramel)

Food category No.	Food category	ML (mg/ kg)	Remark
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41

CARAMEL II – SULFITE CARAMEL

INS Name of additive

150b Caramel II (sulfite caramel)

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	2000	52, 400

CARAMEL III - AMMONIA CARAMEL

INS Name of additive

150c Caramel III (ammonia caramel)

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	2000	52
01.3.2	Beverage whiteners	1000	
01.4.4	Sauces and like products	5000	
01.5.2	Milk and cream powder analogues	5000	
01.6.1	Unripened cheese	15000	201
01.6.2.2	Rind of ripened cheese	50000	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	50000	
01.6.5	Cheese analogues	50000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	2000	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	20000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000	
03.0	Edible ices, including sherbet and sorbet	1000	
04.1.2.3	Fruit in vinegar, oil, or brine	200	

04.1.2.4	Canned or bottled (pasteurized) fruit	200	267
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	7500	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	200	
04.1.2.11	Fruit fillings for pastries	7500	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000	76
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50000	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	50000	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	50000	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50000	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50000	
05.1.2	Cocoa mixes (syrops)	50000	
05.1.3	Cocoa-based spreads, including fillings	50000	XS86
05.1.4	Cocoa and chocolate products	50000	183
05.1.5	Imitation chocolate, chocolate substitute products	50000	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	50000	XS309R
05.3	Chewing gum	20000	

05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	50000	
06.3	Breakfast cereals, including rolled oats	50000	189
06.4.3	Pre-cooked pastas and noodles and like products	50000	153 & 173
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	50000	
06.6	Batters (e.g. for breading or batters for fish or poultry)	50000	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	50000	
06.8.1	Soybean-based beverages	1500	
06.8.8	Other soybean protein products	20000	
07.1.2	Crackers, excluding sweet crackers	50000	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	50000	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	50000	
07.1.5	Steamed breads and buns	50000	
07.1.6	Mixes for bread and ordinary bakery wares	50000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50000	
08.0	Meat and meat products, including poultry and game	GMP	3, 4, 16, XS88, XS89, XS96, XS97 & XS98
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	30000	4, 16, XS292, XS312, XS315
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000	XS36, XS92, XS95, XS165, XS166, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292,

			XS311, XS312, XS315
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	30000	95, XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	50, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	20000	4
10.3	Preserved eggs, including alkaline, salted, and canned eggs	20000	4
10.4	Egg-based desserts (e.g. custard)	20000	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	50000	100
12.2.2	Seasonings and condiments	50000	
12.3	Vinegars	1000	78
12.4	Mustards	50000	
12.5	Soups and broths	25000	
12.6	Sauces and like products	50000	
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50000	89
12.9.2.1	Fermented soybean sauce	20000	207
12.9.2.2	Non-fermented soybean sauce	1500	
12.9.2.3	Other soybean sauces	20000	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20000	
13.4	Dietetic formulae for slimming purposes and weight reduction	20000	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20000	
13.6	Food supplements	20000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000	9
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000	7 & 160
14.2.1	Beer and malt beverages	50000	
14.2.2	Cider and perry	1000	

14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape	50000
14.2.4	Wines (other than grape)	1000
14.2.5	Mead	1000
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	50000
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	50000
15.0	Ready-to-eat savouries	10000

CARAMEL IV - SULFITE AMMONIA CARAMEL

INS Name of additive

150d Caramel IV (sulfite ammonia caramel)

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	2000	52
01.2.1	Fermented milks (plain)	150	12
01.2.2	Renneted milk (plain)	GMP	
01.3.2	Beverage whiteners	1000	
01.4.4	Sauces and like products	5000	
01.5.2	Milk and cream powder analogues	5000	
01.6.1	Unripened cheese	50000	201
01.6.2.1	Ripened cheese (including rind)	50000	201
01.6.2.2	Rind of ripened cheese	50000	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	50000	72
01.6.5	Cheese analogues	50000	201
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	2000	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500	214
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000	
03.0	Edible ices, including sherbet and sorbet	1000	
04.1.2.3	Fruit in vinegar, oil, or brine	7500	
04.1.2.4	Canned or bottled (pasteurized) fruit	7500	267
04.1.2.5	Jams, jellies, marmelades	1500	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	7500	

04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	7500	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	7500	
04.1.2.11	Fruit fillings for pastries	7500	
04.2.2	Processed vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000	92
05.1.2	Cocoa mixes (syrops)	50000	
05.1.3	Cocoa-based spreads, including fillings	50000	XS86
05.1.4	Cocoa and chocolate products	50000	183
05.1.5	Imitation chocolate, chocolate substitute products	50000	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	50000	XS309R
05.3	Chewing gum	20000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	50000	
06.3	Breakfast cereals, including rolled oats	2500	
06.4.2	Dried pastas and noodles and like products	50000	211
06.4.3	Pre-cooked pastas and noodles and like products	50000	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	2500	
06.6	Batters (e.g. for breading or batters for fish or poultry)	2500	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	2500	
06.8.8	Other soybean protein products	20000	
07.1.2	Crackers, excluding sweet crackers	50000	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	50000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1200	
08.0	Meat and meat products, including poultry and game	GMP	3, 4, 16, XS88, XS89, XS96, XS97 & XS98
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000	95, XS36, XS92, XS95,

			XS165, XS166, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	30000	95, XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	30000	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	20000	4
10.2	Egg products	20000	
10.3	Preserved eggs, including alkaline, salted, and canned eggs	20000	
10.4	Egg-based desserts (e.g. custard)	20000	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1200	213
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	10000	
12.3	Vinegars	50000	
12.4	Mustards	50000	
12.5	Soups and broths	25000	212
12.6	Sauces and like products	30000	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50000	
12.9.2.1	Fermented soybean sauce	60000	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20000	
13.4	Dietetic formulae for slimming purposes and weight reduction	20000	
13.5	Dietetic foods (e.g. supplementary foods for dietary use)	20000	

	excluding products of food categories 13.1 - 13.4 and 13.6		
13.6	Food supplements	20000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50000	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000	7 & 127
14.2.1	Beer and malt beverages	50000	
14.2.2	Cider and perry	1000	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape	50000	
14.2.4	Wines (other than grape)	1000	
14.2.5	Mead	1000	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	50000	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	50000	
15.0	Ready-to-eat savouries	10000	

BRILLIANT BLACK (BLACK PN)

INS Name of additive

151 Brilliant black

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52

BROWN HT

INS Name of additive

155 Brown HT

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	150	52

CAROTENOIDS

INS Name of additive

160a(i) beta-Carotenes, synthetic

160a(iii) beta-Carotenes, Blakeslea trispora

160e Carotenal, beta-apo-8'-

160f Carotenoic acid, ethyl ester, beta-apo-8'-

Food category No.	Food category	ML (mg/ kg)	Remark
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01.1.4	Flavoured fluid milk drinks	150	52, 402
01.3.2	Beverage whiteners	100	
01.4.4	Cream analogues	20	
01.5.2	Milk and cream powder analogues	100	209
01.6.1	Unripened cheese	100	
01.6.2.1	Ripened cheese (including rind)	100	
01.6.2.2	Rind of ripened cheese	500	
01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	100	
01.6.4	Processed cheese	100	
01.6.5	Cheese analogues	200	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	
02.1.2	Vegetable oils and fats	25	232
02.1.3	Lard, tallow, fish oil, and other animal fats	25	
02.2.1	Butter	25	146 & 291
02.2.2	Fat spreads, dairy fat spreads and blended spreads	35	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	200	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150	
03.0	Edible ices, including sherbet and sorbet	200	
04.1.2.3	Fruit in vinegar, oil, or brine	1000	
04.1.2.4	Canned or bottled (pasteurized) fruit	200	104
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150	
04.1.2.10	Fermented fruit products	500	
04.1.2.11	Fruit fillings for pastries	100	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	4, 16
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and	1000	

	tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds		
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	50	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	50	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	50	92
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50	
05.1.3	Cocoa-based spreads, including fillings	100	XS86
05.1.4	Cocoa and chocolate products	100	183
05.1.5	Imitation chocolate, chocolate substitute products	100	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	100	XS309R
05.3	Chewing gum	100	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
06.3	Breakfast cereals, including rolled oats	200	
06.4.3	Pre-cooked pastas and noodles and like products	1200	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	150	
06.6	Batters (e.g. for breading or batters for fish or poultry)	500	
07.1.2	Crackers, excluding sweet crackers	1000	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	100	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200	116
07.1.5	Steamed breads and buns	100	216
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	100	
08.1.2	Comminuted meat, poultry, and game	100	4 & 16

08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	100	16
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	20	16
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	20	16
08.3.2	Heat-treated processed comminuted meat, poultry and game products	20	16, XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	100	
09.1.1	Fresh fish	300	4
09.1.2	Fresh mollusks, crustaceans, and echinoderms	100	4,16, XS292, XS312, XS315
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100	95, 304, XS36, XS92, XS95, XS165, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS291, XS311, XS312, XS315
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	100	95, XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	100	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	1000	4
10.4	Egg-based desserts (e.g. custard)	150	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	50	217

12.2.2	Seasonings and condiments	500	
12.4	Mustards	300	
12.5	Soups and broths	300	341
12.6	Sauces and like products	500	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	
14.2.2	Cider and perry	200	
14.2.4	Wines (other than grape)	200	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	100	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	100	

CAROTENES, BETA-, VEGETABLE

INS Name of additive

160a(ii) beta-Carotenes, vegetable

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	1000	52, 401
01.3.2	Beverage whiteners	1000	
01.4.4	Cream analogues	20	
01.5.2	Milk and cream powder analogues	1000	
01.6.1	Unripened cheese	600	
01.6.2.1	Ripened cheese (including rind)	600	
01.6.2.2	Rind of ripened cheese	1000	

01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	1000	
01.6.4	Processed cheese	1000	
01.6.5	Cheese analogues	1000	3
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	1000	
02.1.2	Vegetable oils and fats	1000	
02.1.3	Lard, tallow, fish oil, and other animal fats	1000	
02.2.1	Butter	600	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000	
03.0	Edible ices, including sherbet and sorbet	1000	
04.1.2.3	Fruit in vinegar, oil, or brine	1000	
04.1.2.4	Canned or bottled (pasteurized) fruit	1000	104
04.1.2.5	Jams, jellies, marmelades	1000	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	1000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000	
04.1.2.10	Fermented fruit products	200	
04.1.2.11	Fruit fillings for pastries	100	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1320	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers,	1000	92

	pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5		
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000	
05.1.3	Cocoa-based spreads, including fillings	100	XS86
05.1.4	Cocoa and chocolate products	100	183
05.1.5	Imitation chocolate, chocolate substitute products	100	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500	XS309R
05.3	Chewing gum	500	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	20000	
06.3	Breakfast cereals, including rolled oats	400	
06.4.2	Dried pastas and noodles and like products	1000	211
06.4.3	Pre-cooked pastas and noodles and like products	1000	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	1000	
06.6	Batters (e.g. for breading or batters for fish or poultry)	1000	
07.1.2	Crackers, excluding sweet crackers	1000	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	1000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000	
08.1.2	Comminuted meat, poultry, and game	20	4 & 16
08.2	Processed meat, poultry and game products in whole pieces or cuts	5000	16, XS96 & XS97
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	20	118
08.3.2	Heat-treated processed comminuted meat, poultry and game products	20	XS88, XS89 & XS98
08.3.3	Frozen processed comminuted meat, poultry, and game products	5000	16
08.4	Edible casings (e.g. sausage casings)	5000	
09.1.1	Fresh fish	100	4, 16 & 50
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	100	304
09.2.3	Frozen minced and creamed fish products, including mollusks,	1000	16

	crustaceans, and echinoderms		
09.2.4.1	Cooked fish and fish products	1000	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	1000	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1000	16
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000	XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	1000	16
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	1000	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	1000	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	1000	16
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	1000	4
10.2	Egg products	1000	
10.4	Egg-based desserts (e.g. custard)	150	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	50	
12.2.2	Seasonings and condiments	500	
12.4	Mustards	1000	
12.5	Soups and broths	1000	341
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2000	
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	2000	
12.6.3	Mixes for sauces and gravies	2000	
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1000	

13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	600	
13.4	Dietetic formulae for slimming purposes and weight reduction	600	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	600	
13.6	Food supplements	600	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	2000	
14.2.1	Beer and malt beverages	600	
14.2.2	Cider and perry	600	
14.2.4	Wines (other than grape)	600	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	600	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	600	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	100	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	20000	3
15.3	Snacks - fish-based	100	

ANNATTO EXTRACTS, BIXIN-BASED

INS Name of additive

160b(i) Annatto extracts, bixin-based

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	20	8, 52
02.2.1	Butter	20	8
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	10	8, 382, XS167, XS189, XS222, XS236, XS244

ANNATTO EXTRACTS, NORBIXIN-BASED

INS Name of additive

160b(ii) Annatto extracts, norbixin-based

Food category No.	Food category	ML (mg/ kg)	Remark
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01.1.4	Flavoured fluid milk drinks	10	52, 185
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LUTEIN FROM TAGETES ERECTA

INS Name of additive

161b(i) Lutein from Tagetes erecta

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	100	52, 400

CANTHAXANTHIN

INS Name of additive

161g Canthaxanthin

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	15	52, 170
01.6.1	Unripened cheese	15	201
01.6.2	Ripened cheese	15	201
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	15	
01.6.5	Cheese analogues	15	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	15	170
02.2.2	Fat spreads, dairy fat spreads and blended spreads	15	214 & 215
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	15	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	15	
04.1.2.5	Jams, jellies, marmelades	200	5
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	15	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	15	
04.1.2.11	Fruit fillings for pastries	15	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10	
06.4.2	Dried pastas and noodles and like products	15	211
06.4.3	Pre-cooked pastas and noodles and like products	15	153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	15	

08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	100	4, 16 & 118
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	35	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	15	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.3	Salmon substitutes, caviar, and other fish roe products	15	XS291
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	15	XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	15	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	15	
12.2.2	Seasonings and condiments	20	
12.5.2	Mixed for soups and broths	30	XS117
12.6	Sauces and like products	30	XS302
14.1.4.1	Carbonated water-based flavoured drinks	5	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	5	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	5	127
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	45	

ZEAXANTHIN, SYNTHETIC

INS	Name of additive
161h(i)	Zeaxanthin, synthetic

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	100	52, 400

GRAPE SKIN EXTRACT

INS	Name of additive
163(ii)	Grape skin extract

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	100	52, 181, 402
01.4.4	Cream analogues	150	181 & 201
01.5.2	Milk and cream powder analogues	150	181, 201 & 209
01.6.2.2	Rind of ripened cheese	1000	
01.6.4.2	Flavoured processed cheese, including cheese containing fruit, vegetables, meat, etc.	1000	
01.6.5	Cheese analogues	1000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	200	181
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	181
03.0	Edible ices, including sherbet and sorbet	100	181
04.1.2.3	Fruit in vinegar, oil, or brine	1500	
04.1.2.4	Canned or bottled (pasteurized) fruit	1500	181, 267
04.1.2.5	Jams, jellies, marmelades	500	181
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	181
04.1.2.7	Candied fruit	1000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500	179, 181 & 182
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	500	181
04.1.2.10	Fermented fruit products	500	181
04.1.2.11	Fruit fillings for pastries	500	181
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil,	100	179 & 181

	brine, or soybean sauce		
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	100	179 & 181
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	100	92 & 181
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100	181
05.1.3	Cocoa-based spreads, including fillings	200	181 & XS86
05.1.4	Cocoa and chocolate products	200	181 & 183
05.1.5	Imitation chocolate, chocolate substitute products	200	181
05.2.2	Soft candy	1700	181, XS309R
05.3	Chewing gum	500	181
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	181
06.3	Breakfast cereals, including rolled oats	200	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	200	181
07.1.2	Crackers, excluding sweet crackers	200	181
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200	181
08.1.2	Comminuted meat, poultry, and game	1000	4, 16 & 94
08.2	Processed meat, poultry and game products in whole pieces or cuts	5000	16, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	5000	16, XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	5000	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & 95
09.2.4.1	Cooked fish and fish products	500	95
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	1000	

09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1000	16 & 95
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500	16
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	1500	16
09.3.3	Salmon substitutes, caviar, and other fish roe products	1500	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	1500	16
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	1500	16, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	1500	4
10.4	Egg-based desserts (e.g. custard)	200	181
12.4	Mustards	200	181
12.5	Soups and broths	500	181 & XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	300	181
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	300	181
12.6.3	Mixes for sauces and gravies	300	181
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1500	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	250	181
13.4	Dietetic formulae for slimming purposes and weight reduction	250	181
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	250	181

13.6	Food supplements	500	181
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300	181
14.2.2	Cider and perry	300	181
14.2.4	Wines (other than grape)	300	181
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300	181
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	300	181
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500	181
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	300	181
15.3	Snacks - fish-based	400	

CALCIUM CARBONATE

INS	Name of additive		
170(i)	Calcium carbonate		

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	4, 16 & 326
08.1.2	Comminuted meat, poultry, and game	GMP	4, 16 & 281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95, XS36 XS92, XS95, XS165, XS190, XS191,

			XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
12.1.1	Salt	GMP	
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

IRON OXIDES

INS Name of additive

172(i)	Iron oxide, black
172(ii)	Iron oxide, red
172(iii)	Iron oxide, yellow

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.4	Flavoured fluid milk drinks	20	52, 402
01.6.2.2	Rind of ripened cheese	100	
01.6.4	Processed cheese	50	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	350	
03.0	Edible ices, including sherbet and sorbet	300	

04.1.1.2	Surface-treated fresh fruit	1000	4 & 16
04.1.2.4	Canned or bottled (pasteurized) fruit	300	267
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	
04.1.2.7	Candied fruit	250	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	200	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	XS309R
05.3	Chewing gum	10000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
06.3	Breakfast cereals, including rolled oats	75	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	75	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	100	
08.4	Edible casings (e.g. sausage casings)	1000	72
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	250	22, XS167, XS189, XS222, XS236, XS244, XS311
09.3.3	Salmon substitutes, caviar, and other fish roe products	100	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	50	95
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	50	95, XS3, XS37, XS70, XS90, XS94 & XS119
10.1	Fresh eggs	GMP	4
10.4	Egg-based desserts (e.g. custard)	150	
12.2.2	Seasonings and condiments	1000	
12.5	Soups and broths	100	XS117
12.6	Sauces and like products	75	XS302

13.6	Food supplements	7500	3
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	400	

SORBATES

INS	Name of additive
200	Sorbic acid
201	Sodium sorbate
202	Potassium sorbate
203	Calcium sorbate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	1000	42 & 220
01.2.2	Renneted milk (plain)	1000	42
01.3.2	Beverage whiteners	200	42
01.6.1	Unripened cheese	1000	42 & 223
01.6.2	Ripened cheese	3000	42
01.6.3	Whey cheese	1000	42
01.6.4	Processed cheese	3000	42
01.6.5	Cheese analogues	3000	3 & 42
01.6.6	Whey protein cheese	3000	42
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	1000	42
02.2.2	Fat spreads, dairy fat spreads and blended spreads	2000	42
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	42
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000	42
04.1.2.2	Dried fruit	500	42
04.1.2.3	Fruit in vinegar, oil, or brine	1000	42
04.1.2.5	Jams, jellies, marmelades	1000	42
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1000	42

04.1.2.7	Candied fruit	500	42
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000	42
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000	42
04.1.2.10	Fermented fruit products	1000	42
04.1.2.11	Fruit fillings for pastries	1000	42
04.1.2.12	Cooked fruit	1200	42
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1000	42
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	42
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	1000	42
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000	42
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000	42 & 221
05.1.2	Cocoa mixes (syrops)	1000	42
05.1.3	Cocoa-based spreads, including fillings	1000	42 & XS86
05.1.5	Imitation chocolate, chocolate substitute products	1500	42
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1500	42, XS309R
05.3	Chewing gum	1500	42
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1000	42
06.4.3	Pre-cooked pastas and noodles and like products	2000	42 & 211
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	1000	42
06.6	Batters (e.g. for breading or batters for fish or poultry)	2000	42
07.0	Bakery wares	1000	42
08.2.1.1	Cured (including salted) non-heat treated processed meat, poultry,	200	3 & 42

	and game products in whole pieces or cuts		
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	2000	3 & 42
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts	200	3 & 42
08.2.2	Heat-treated processed meat, poultry, and game products	200	3, 42, XS96 & XS97
08.2.3	Frozen processed meat, poultry, and game products in	200	3 & 42
08.3	Processed comminuted meat, poultry and game products	1500	42, XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	10000	42, 222 & 365
09.2.4.1	Cooked fish and fish products	2000	42
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2000	42 & 82
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000	20, 42, XS189, XS222, XS236
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	1000	42, XS291
10.2.1	Liquid egg products	5000	42
10.2.2	Frozen egg products	1000	42
10.2.3	Dried and/or heat coagulated egg products	1000	42
10.4	Egg-based desserts (e.g. custard)	1000	42
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	1000	42
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000	42 & 192
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	1000	42
12.4	Mustards	1000	42
12.5	Soups and broths	1000	42, 338 & 339
12.6	Sauces and like products	1000	42 & 127
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1500	42
12.9.1	Fermented soybean paste (e.g., miso)	1000	42

12.9.2.1	Fermented soybean sauce	1000	42
12.9.2.3	Other soybean sauces	1000	42
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1500	42
13.4	Dietetic formulae for slimming purposes and weight reduction	1500	42
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	1500	42
13.6	Food supplements	2000	42
14.1.2.1	Fruit juice	1000	42, 91 & 122
14.1.2.3	Concentrates for fruit juice	1000	42, 91, 122, 127
14.1.3.1	Fruit nectar	1000	42, 91 & 122
14.1.3.3	Concentrates for fruit nectar	1000	42, 91, 122, 127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500	42, 127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500	42, 160
14.2.2	Cider and perry	500	42
14.2.3	Grape wines	200	42
14.2.4	Wines (other than grape)	500	42
14.2.5	Mead	200	42
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	500	42, 224
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000	42
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	1000	42

BENZOATES

INS	Name of additive
210	Benzoic acid
211	Sodium benzoate
212	Potassium benzoate
213	Calcium benzoate

Food	Food category	ML	Remark
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category No.		(mg/ kg)	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	300	13
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000	13
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	13
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000	13
04.1.2.2	Dried fruit	800	13
04.1.2.3	Fruit in vinegar, oil, or brine	1000	13
04.1.2.5	Jams, jellies, marmelades	1000	13
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1000	13
04.1.2.7	Candied fruit	1000	13
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000	13
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000	13
04.1.2.10	Fermented fruit products	1000	13
04.1.2.11	Fruit fillings for pastries	1000	13
04.1.2.12	Cooked fruit	1000	13
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000	13
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2000	13
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	13
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	3000	13
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000	13
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and	1000	13

	seaweeds		
05.1.3	Cocoa-based spreads, including fillings	1500	13 & XS86
05.1.5	Imitation chocolate, chocolate substitute products	1500	13
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1500	13, XS309R
05.3	Chewing gum	1500	13
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1500	13
06.4.3	Pre-cooked pastas and noodles and like products	1000	13
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	1000	13
07.0	Bakery wares	1000	13
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	1000	3 & 13
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	1000	3 & 13
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2000	13 & 82
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200	13, 121, 333, XS167, XS189, XS222 & XS236
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	2000	13, 120 & XS291
10.2.1	Liquid egg products	5000	13
10.4	Egg-based desserts (e.g. custard)	1000	13
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	1000	13
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	2000	13
12.2.2	Seasonings and condiments	1000	13
12.3	Vinegars	1000	13
12.4	Mustards	1000	13
12.5	Soups and broths	500	13, 338, 339
12.6	Sauces and like products	1000	13
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories	1500	13

04.2.2.5 and 05.1.3

13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1500	13
13.4	Dietetic formulae for slimming purposes and weight reduction	1500	13
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	2000	13
13.6	Food supplements	2000	13
14.1.2.1	Fruit juice	1000	13, 91, 122
14.1.2.3	Concentrates for fruit juice	1000	13, 91, 122, 127
14.1.3.1	Fruit nectar	1000	13, 91, 122
14.1.3.3	Concentrates for fruit nectar	1000	13, 91, 122, 127
14.1.3.4	Concentrates for vegetable nectar	600	13
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	250	13, 301
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000	13
14.2.2	Cider and perry	1000	13, 124
14.2.4	Wines (other than grape)	1000	13
14.2.5	Mead	1000	13
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	1000	13
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000	13

HYDROXYBENZOATES, PARA-

INS	Name of additive
214	Ethyl para-hydroxybenzoate
218	Methyl para-hydroxybenzoate

Food category No.	Food category	ML (mg/kg)	Remark
01.6.4	Processed cheese	300	27
01.6.5	Cheese analogues	500	27
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	120	27
02.2.2	Fat spreads, dairy fat spreads and blended spreads	300	27
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or	300	27

	flavoured products based on fat emulsions		
04.1.2.2	Dried fruit	800	27
04.1.2.3	Fruit in vinegar, oil, or brine	250	27
04.1.2.5	Jams, jellies, marmelades	250	27
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1000	27
04.1.2.7	Candied fruit	1000	27
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	800	27
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	800	27
04.1.2.10	Fermented fruit products	800	27
04.1.2.11	Fruit fillings for pastries	800	27
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1000	27
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	27
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	1000	27
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	300	27
05.1.3	Cocoa-based spreads, including fillings	300	27 & XS86
05.1.5	Imitation chocolate, chocolate substitute products	300	27
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	27, XS309R
05.3	Chewing gum	1500	27
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	300	27
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300	27
08.4	Edible casings (e.g. sausage casings)	36	27
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	1000	27, XS291
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar	100	27

	toppings)		
12.3	Vinegars	100	27
12.4	Mustards	300	27
12.6	Sauces and like products	1000	27, XS302
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500	27
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	450	27 & 160
14.2.2	Cider and perry	200	27
14.2.4	Wines (other than grape)	200	27
14.2.5	Mead	200	27
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	1000	27 & 224
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300	27
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	300	27

SULFITES

INS	Name of additive
220	Sulfur dioxide
221	Sodium sulfite
222	Sodium hydrogen sulfite
223	Sodium metabisulfite
224	Potassium metabisulfite
225	Potassium sulfite
539	Sodium thiosulfate

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	30	44 & 204
04.1.2.1	Frozen fruit	500	44 & 155
04.1.2.2	Dried fruit	1000	44, 135 & 218
04.1.2.3	Fruit in vinegar, oil, or brine	100	44
04.1.2.5	Jams, jellies, marmelades	100	44
04.1.2.7	Candied fruit	100	44

04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	44 & 206
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100	44
04.1.2.10	Fermented fruit products	100	44
04.1.2.11	Fruit fillings for pastries	100	44
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50	44, 76 & 136
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50	44, 76, 136 & 137
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	44 & 105
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	100	44
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50	44
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	500	44 & 138
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	300	44 & 205
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500	44
06.2.1	Flours	200	44
06.2.2	Starches	50	44
06.4.3	Pre-cooked pastas and noodles and like products	20	44
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50	44
09.1.2	Fresh mollusks, crustaceans, and echinoderms	100	44, 390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	100	19, 44, 139, 392, XS36,

			XS 165, XS190, XS191, XS312, XS315
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	150	44
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	30	44, XS167, XS189, XS222, XS236, XS244, XS311
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	150	44, 140, XS3, XS37, XS70, XS90, XS94 & XS119
11.1.1	White sugar, dextrose anhydrous, dextrose monohydrate, fructose	15	44
11.1.2	Powdered sugar, powdered dextrose	15	44
11.1.3	Soft white sugar, soft brown sugar, glucose syrup, dried glucose syrup, raw cane sugar	20	44 & 111
11.1.5	Plantation or mill white sugar	70	44
11.2	Brown sugar excluding products of food category 11.1.3	40	44
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	70	44
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	40	44
12.2.1	Herbs and spices	150	44
12.2.2	Seasonings and condiments	200	44
12.3	Vinegars	100	44
12.4	Mustards	250	44 & 106
12.6	Sauces and like products	300	44, XS302
14.1.2.1	Fruit juice	50	44 & 122
14.1.2.2	Vegetable juice	50	44 & 122
14.1.2.3	Concentrates for fruit juice	50	44, 122 & 127
14.1.2.4	Concentrates for vegetable juice	50	44, 122 & 127
14.1.3.1	Fruit nectar	50	44 & 122

14.1.3.2	Vegetable nectar	50	44 & 122
14.1.3.3	Concentrates for fruit nectar	50	44, 122 & 127
14.1.3.4	Concentrates for vegetable nectar	50	44, 122 & 127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	70	44, 127 & 143
14.2.1	Beer and malt beverages	50	44
14.2.2	Cider and perry	200	44
14.2.3	Grape wines	350	44 & 103
14.2.4	Wines (other than grape)	200	44
14.2.5	Mead	200	44
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200	44
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	250	44
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	50	44

ORTHO-PHENYLPHENOLS

INS	Name of additive
231	Ortho-phenylphenol
232	Sodium ortho-phenylphenol

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	12	49

NISIN

INS	Name of additive
234	Nisin

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	12,5	233, 403
01.4.3	Clotted cream (plain)	10	
01.6.1	Unripened cheese	12,5	233
01.6.2	Ripened cheese	12,5	
01.6.4	Processed cheese	12,5	233

01.6.5	Cheese analogues	12,5	
01.6.6	Whey protein cheese	12,5	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	12,5	233 & 362
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	3	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	6,25	233
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	25	233, 330, XS96 & XS97
08.3.2	Heat-treated processed comminuted meat, poultry and game products	25	233 & 377
08.4	Edible casings (e.g. sausage casings)	7	233
10.2.1	Liquid egg products	6,25	233
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	5	233, 339

NATAMYCIN (PIMARICIN)

INS	Name of additive
235	Natamycin

Food category No.	Food category	ML (mg/kg)	Remark
01.6.1	Unripened cheese	40	3 & 80
01.6.2	Ripened cheese	40	3 & 80
01.6.4	Processed cheese	40	3 & 80
01.6.5	Cheese analogues	40	3 & 80
01.6.6	Whey protein cheese	40	3 & 80
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	6	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	20	3 & 81

HEXAMETHYLENE TETRAMINE

INS	Name of additive
239	Hexamethylene tetramine

Food category No.	Food category	ML (mg/kg)	Remark
01.6.2.1	Ripened cheese (including rind)	25	66 & 298

DIMETHYL DICARBONATE

INS	Name of additive
242	Dimethyl dicarbonate

Food category No.	Food category	ML (mg/kg)	Remark
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	250	18
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	250	18
14.2.2	Cider and perry	250	18
14.2.3	Grape wines	200	18
14.2.4	Wines (other than grape)	250	18
14.2.5	Mead	200	18

LAURIC ARGINATE ETHYL ESTER

INS	Name of additive
243	Lauric arginate ethyl ester

Food category No.	Food category	ML (mg/kg)	Remark
01.6.1	Unripened cheese	200	
01.6.2.1	Ripened cheese (including rind)	200	
01.6.3	Whey cheese	200	
01.6.4	Processed cheese	200	
01.6.5	Cheese analogues	200	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	200	170
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	214 & 215
04.1.2.2	Dried fruit	200	
04.1.2.11	Fruit fillings for pastries	200	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil,	200	

	brine, or soybean sauce		
05.1.3	Cocoa-based spreads, including fillings	200	XS86
05.3	Chewing gum	225	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	200	
08.2.1	Non-heat treated processed meat, poultry, and game products in whole pieces or cuts	200	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	200	XS96 & XS97
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	200	3 & 374
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	315	
08.3.2	Heat-treated processed comminuted meat, poultry and game products	200	XS88, XS89 & XS98
08.3.3	Frozen processed comminuted meat, poultry, and game products	315	3 & 374
09.2.4.1	Cooked fish and fish products	200	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	200	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	200	419
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200	XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	200	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	200	
09.3.3	Salmon substitutes, caviar, and other fish roe products	200	XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	200	
10.2	Egg products	200	
10.4	Egg-based desserts (e.g. custard)	200	
12.2.2	Seasonings and condiments	200	
12.5	Soups and broths	200	XS117

12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	200	
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	200	
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200	
14.1.4.1	Carbonated water-based flavoured drinks	50	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	50	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	50	127

NITRITES

INS	Name of additive
249	Potassium nitrite
250	Sodium nitrite

Food category No.	Food category	ML (mg/kg)	Remark
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	80	32 & 288
08.3	Processed comminuted meat, poultry and game products	80	32, 286 & 287

ACETIC ACID, GLACIAL

INS	Name of additive
260	Acetic acid, glacial

Food category No.	Food category	ML (mg/kg)	Remark
01.6.6	Whey protein cheese	GMP	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 263
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 263
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	

09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	437, XS167, XS189, XS222, XS236 & XS244
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	5000	238
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POTASSIUM ACETATE

INS Name of additive

261(i) Potassium acetate

Food category No.	Food category	ML (mg/kg)	Remark
13.2	Complementary foods for infants and young children	GMP	239

SODIUM ACETATE

INS Name of additive

262(i) Sodium acetate

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	6000	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & XS166

09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	GMP	239, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM DIACETATE

INS	Name of additive
262(ii)	Sodium diacetate

Food category No.	Food category	ML (mg/kg)	Remark
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000	XS253
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	XS309R
07.1	Bread and ordinary bakery wares	4000	
08.2	Processed meat, poultry and game products in whole pieces or cuts	1000	XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	1000	XS88, XS89 & XS98
10.4	Egg-based desserts (e.g. custard)	2000	
12.5	Soups and broths	500	XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing,	2500	

	onion dip)		
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	2500	XS306R
12.6.3	Mixes for sauces and gravies	2500	127
12.6.4	Clear sauces (e.g. fish sauce)	2500	XS302
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000	

CALCIUM ACETATE

INS Name of additive

263 Calcium acetate

Food category No.	Food category	ML (mg/kg)	Remark
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.2	Complementary foods for infants and young children	GMP	239

LACTIC ACID, L-, D- and DL-

INS Name of additive

270 Lactic acid, L-, D- and DL-

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.6.6	Whey protein cheese	GMP	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256

09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	382, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	72 & 83
13.1.2	Follow-up formulae	GMP	72 & 83
13.1.3	Formulae for special medical purposes for infants	GMP	72 & 83
13.2	Complementary foods for infants and young children	2000	83 & 238

PROPIONIC ACID

INS	Name of additive
280	Propionic acid

Food category No.	Food category	ML (mg/kg)	Remark
01.6.6	Whey protein cheese	3000	70

SODIUM PROPIONATE

INS	Name of additive
281	Sodium propionate

Food category No.	Food category	ML (mg/kg)	Remark
01.6.6	Whey protein cheese	3000	70

CALCIUM PROPIONATE

INS	Name of additive
282	Calcium propionate

Food category No.	Food category	ML (mg/kg)	Remark
01.6.6	Whey protein cheese	3000	70

CARBON DIOXIDE

INS	Name of additive
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	59
01.2.2	Renneted milk (plain)	GMP	59
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	59 & 278
04.1.1.3	Peeled or cut fresh fruit	GMP	59
06.4.1	Fresh pastas and noodles and like products	GMP	59 & 211
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	59, 382, XS167, XS189, XS222, XS236, XS244
13.1.1	Infant formulae	GMP	59
13.1.3	Formulae for special medical purposes for infants	GMP	59
13.2	Complementary foods for infants and young children	GMP	59
14.1.2.1	Fruit juice	GMP	69
14.1.2.3	Concentrates for fruit juice	GMP	69 & 127
14.1.3.1	Fruit nectar	GMP	69
14.1.3.3	Concentrates for fruit nectar	GMP	69 & 127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	59 & 160
14.2.3	Grape wines	GMP	60

MALIC ACID, DL-**INS Name of additive**

296 Malic acid (DL-)

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.6.6	Whey protein cheese	GMP	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	265
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and	GMP	

	tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3		
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	GMP	239
14.1.2.1	Fruit juice	GMP	115
14.1.2.2	Vegetable juice	GMP	
14.1.2.3	Concentrates for fruit juice	GMP	115 & 127
14.1.2.4	Concentrates for vegetable juice	GMP	
14.1.3.1	Fruit nectar	GMP	
14.1.3.2	Vegetable nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	GMP	127
14.1.3.4	Concentrates for vegetable nectar	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

FUMARIC ACID

INS	Name of additive
297	Fumaric acid

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	700	

06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ASCORBIC ACID, L-

INS Name of additive

300 Ascorbic acid (L-)

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	410
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	262
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	110
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.2.1	Flours	300	
06.4.1	Fresh pastas and noodles and like products	200	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315

09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	307, 392, XS189, XS190, XS191, XS222, XS236, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	306 & 307
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS311
12.1.2	Salt Substitutes	GMP	
13.1.2	Follow-up formulae	50	72, 242 & 315
13.2	Complementary foods for infants and young children	500	242
14.1.2.1	Fruit juice	GMP	
14.1.2.2	Vegetable juice	GMP	
14.1.2.3	Concentrates for fruit juice	GMP	127
14.1.2.4	Concentrates for vegetable juice	GMP	
14.1.3.1	Fruit nectar	GMP	
14.1.3.2	Vegetable nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	GMP	127
14.1.3.4	Concentrates for vegetable nectar	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM ASCORBATE

INS	Name of additive		
301	Sodium ascorbate		
Food category No.	Food category	ML (mg/kg)	Remark

01.1.2	Other fluid milk (plain)	GMP	410
04.1.1.3	Peeled or cut fresh fruit	GMP	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.2.1	Flours	300	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	200	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	437, 307, 392, XS92, XS167, XS189, XS191, XS222, XS236, XS244, XS312, XS315
12.1.2	Salt Substitutes	GMP	314
13.1.2	Follow-up formulae	50	70, 72, 315 & 316
13.2	Complementary foods for infants and young children	500	317, 319 & 320
14.1.2.1	Fruit juice	GMP	
14.1.2.3	Concentrates for fruit juice	GMP	127
14.1.3.1	Fruit nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	GMP	127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CALCIUM ASCORBATE

INS	Name of additive
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Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.3	Peeled or cut fresh fruit	GMP	
06.4.2	Dried pastas and noodles and like products	200	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	308, 392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	139, XS166
13.1.2	Follow-up formulae	50	70, 72 & 315
13.2	Complementary foods for infants and young children	200	239 & 317
14.1.2.1	Fruit juice	GMP	
14.1.2.3	Concentrates for fruit juice	GMP	127
14.1.3.1	Fruit nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	GMP	127

ASCORBYL ESTERS

INS	Name of additive
304	Ascorbyl palmitate
305	Ascorbyl stearate

Food category No.	Food category	ML (mg/kg)	Remark
01.3.2	Beverage whiteners	80	10
01.5.1	Milk powder and cream powder (plain)	500	10
01.5.2	Milk and cream powder analogues	80	10

01.6.2.1	Ripened cheese (including rind)	500	10 & 112
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	500	2 & 10
02.1.1	Butter oil, anhydrous milkfat, ghee	500	10 & 171
02.1.2	Vegetable oils and fats	500	10
02.1.3	Lard, tallow, fish oil, and other animal fats	500	10
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500	10
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	500	10
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	80	10
03.0	Edible ices, including sherbet and sorbet	200	10 & 15
04.1.2.2	Dried fruit	80	10
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	500	2 & 10
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	80	10
05.0	Confectionery	500	10, 15, 375, XS86, XS105, XS141, XS309R
06.3	Breakfast cereals, including rolled oats	200	10
06.4.3	Pre-cooked pastas and noodles and like products	500	10 & 211
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	500	2 & 10
07.0	Bakery wares	1000	10 & 15
08.4	Edible casings (e.g. sausage casings)	5000	10
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000	10, 392, XS36, XS92, XS95, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000	10
10.4	Egg-based desserts (e.g. custard)	500	2, 10

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	200	10
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	500	10
12.4	Mustards	500	10
12.5	Soups and broths	200	10
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	500	10, 15
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	500	10
12.6.3	Mixes for sauces and gravies	200	10
12.6.4	Clear sauces (e.g. fish sauce)	200	10 & XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200	10
13.1.1	Infant formulae	10	15, 72, 187
13.1.2	Follow-up formulae	50	15, 72, 187, 315
13.1.3	Formulae for special medical purposes for infants	10	10, 15 & 72
13.2	Complementary foods for infants and young children	200	15 & 187
13.4	Dietetic formulae for slimming purposes and weight reduction	500	10
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	500	10
13.6	Food supplements	500	10
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000	10 & 15
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	10
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	200	10

TOCOPHEROLS

INS	Name of additive
307a	d-alpha-Tocopherol
307b	Tocopherol concentrate (mixed)
307c	dl-alpha-Tocopherol

Food category No.	Food category	ML (mg/	Remark
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		kg)	
01.1.2	Other fluid milk (plain)	200	410
01.1.4	Flavoured fluid milk drinks	200	15
01.3.2	Beverage whiteners	200	XS250, XS252
01.4.4	Cream analogues	200	
01.6.1	Unripened cheese	200	168, 351
01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	300	
01.6.4	Processed cheese	200	
01.6.5	Cheese analogues	400	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	500	XS243
01.8	Whey and whey products, excluding whey cheeses	200	
02.1.1	Butter oil, anhydrous milkfat, ghee	500	171
02.1.2	Vegetable oils and fats	300	356 & 357
02.1.3	Lard, tallow, fish oil, and other animal fats	300	358
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	900	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	
03.0	Edible ices, including sherbet and sorbet	500	15
04.1.2.2	Dried fruit	200	XS67, XS130
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	200	XS160
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	150	XS240 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	500	15
04.1.2.11	Fruit fillings for pastries	150	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	XS38
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	300	XS57
05.1.2	Cocoa mixes (syrups)	500	15

05.1.3	Cocoa-based spreads, including fillings	100	15, XS86
05.1.4	Cocoa and chocolate products	750	15 & 168
05.1.5	Imitation chocolate, chocolate substitute products	500	15
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500	15 & XS309R
05.3	Chewing gum	1500	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	15
06.2.1	Flours	5000	15 & 186
06.3	Breakfast cereals, including rolled oats	200	
06.4.2	Dried pastas and noodles and like products	500	211
06.4.3	Pre-cooked pastas and noodles and like products	200	211
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	500	15
06.6	Batters (e.g. for breading or batters for fish or poultry)	100	
07.1.2	Crackers, excluding sweet crackers	200	
07.1.6	Mixes for bread and ordinary bakery wares	100	
07.2.1	Cakes, cookies and pies (e.g. fruit-filled or custard types)	200	389
07.2.2	Other fine bakery products (e.g. doughnuts, sweet rolls, scones and muffins)	200	
07.2.3	Mixes for fine bakery wares	200	11
08.1.2	Fresh meat, poultry, and game, comminuted	300	15, 281
08.2	Processed meat, poultry and game products in whole pieces or cuts	500	XS96, XS97
08.3	Processed comminuted meat, poultry and game products	500	XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	5000	365
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, XS166
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	2000	421, XS326, XS327, XS328
12.4	Mustards	200	
12.5	Soups and broths	50	346
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing,	600	

	onion dip)		
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	600	
12.6.3	Mixes for sauces and gravies	300	127
13.1.1	Infant formulae	10	72, 416
13.1.2	Follow-up formulae	30	72
13.1.3	Formulae for special medical purposes for infants	10	72, 416
13.2	Complementary foods for infants and young children	300	15
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	30	
13.4	Dietetic formulae for slimming purposes and weight reduction	300	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
13.6	Food supplements	2000	418
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	434
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	200	

PROPYL GALLATE

INS	Name of additive
310	Propyl gallate

Food category No.	Food category	ML (mg/kg)	Remark
01.5.1	Milk powder and cream powder (plain)	200	15, 75 & 196
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	90	2 & 15
02.1.1	Butter oil, anhydrous milkfat, ghee	100	15, 133 & 171
02.1.2	Vegetable oils and fats	200	15 & 130
02.1.3	Lard, tallow, fish oil, and other animal fats	200	15 & 130
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	15 & 130
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	200	15 & 130

02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	15 & 130
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	90	2 & 15
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50	15, 76 & 196
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	200	15, 130, 303, XS86, XS105 & XS141
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	15, 130 & XS309R
05.3	Chewing gum	1000	130
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	200	15 & 130
06.1	Whole, broken, or flaked grain, including rice	100	15
06.3	Breakfast cereals, including rolled oats	200	15 & 196
06.4.3	Pre-cooked pastas and noodles and like products	200	15, 130 & 211
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	90	2 & 15
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	100	15 & 130
07.2.3	Mixes for fine bakery wares	200	15 & 196
08.2	Processed meat, poultry and game products in whole pieces or cuts	200	15, 130, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	200	15, 130, XS88, XS89 & XS98
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100	15, 196, XS167, XS189, XS222, XS236, XS244, XS311
10.4	Egg-based desserts (e.g. custard)	90	2 & 15
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for	200	15 & 130

	instant noodles)		
12.5	Soups and broths	200	15, 127 & 130
12.6	Sauces and like products	200	15, 130, XS302
13.6	Food supplements	400	15 & 196
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000	15
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	15 & 130
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	200	15 & 130

GUAIAIC RESIN

INS Name of additive

314 Guaiac resin

Food category No.	Food category	ML (mg/kg)	Remark
02.1.2	Vegetable oils and fats	1000	
02.1.3	Lard, tallow, fish oil, and other animal fats	1000	
05.3	Chewing gum	1500	
12.6	Sauces and like products	600	15, XS302

ERYTHORBIC ACID (ISOASCORBIC ACID)

INS Name of additive

315 Erythorbic acid (isoascorbic acid)

Food category No.	Food category	ML (mg/kg)	Remark
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	308, 392, XS36, XS92, XS95, XS165, XS190, XS191,

			XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	139, XS166

SODIUM ERYTHORBATE

INS	Name of additive
316	Sodium erythorbate

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	280
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	382, XS167, XS189, XS222, XS236, XS244

TERTIARY BUTYLHYDROQUINONE

INS	Name of additive
319	Tertiary butylhydroquinone (TBHQ)

Food category No.	Food category	ML (mg/kg)	Remark
01.3.2	Beverage whiteners	100	15 & 195
02.1.2	Vegetable oils and fats	200	15 & 130
02.1.3	Lard, tallow, fish oil, and other animal fats	200	15 & 130
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	15 & 130

02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	200	15 & 130
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	15 & 130
03.0	Edible ices, including sherbet and sorbet	200	15 & 195
05.1.4	Cocoa and chocolate products	200	15, 130, 303
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	15, 130, XS309R
05.3	Chewing gum	400	130
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	200	15 & 130
06.4.3	Pre-cooked pastas and noodles and like products	200	15 & 130
07.1.1	Breads and rolls	200	15 & 195
07.1.2	Crackers, excluding sweet crackers	200	15 & 195
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	200	15 & 130
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200	15 & 195
08.2	Processed meat, poultry and game products in whole pieces or cuts	100	15, 130, 167, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	100	15, 130, 162, XS88, XS89 & XS98
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	200	15 & 130
12.4	Mustards	200	15
12.5	Soups and broths	200	15 & 130
12.6	Sauces and like products	200	15, 130, XS302
15.0	Ready-to-eat savouries	200	15 & 130

BUTYLATED HYDROXYANISOLE

INS	Name of additive
320	Butylated hydroxyanisole (BHA)

Food category No.	Food category	ML (mg/kg)	Remark
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01.3.2	Beverage whiteners	100	15 & 195
01.5.1	Milk powder and cream powder (plain)	100	15 & 196
02.1.1	Butter oil, anhydrous milkfat, ghee	175	15, 133 & 171
02.1.2	Vegetable oils and fats	200	15 & 130
02.1.3	Lard, tallow, fish oil, and other animal fats	200	15 & 130
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	15 & 130
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	200	15 & 130
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	15 & 130
03.0	Edible ices, including sherbet and sorbet	200	15 & 195
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	15, 76 & 196
05.1.4	Cocoa and chocolate products	200	15, 130, 303
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	15, 130, XS309R
05.3	Chewing gum	400	130
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	200	15 & 130
06.3	Breakfast cereals, including rolled oats	200	15 & 196
06.4.3	Pre-cooked pastas and noodles and like products	200	15 & 130
07.0	Bakery wares	200	15 & 180
08.2	Processed meat, poultry and game products in whole pieces or cuts	200	15, 130, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	200	15, 130, XS88, XS89 & XS98
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, 392, XS36, XS92, XS95, XS165, XS190, XS191, XS312,

			XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, XS166
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200	15, 196, XS167, XS189, XS222, XS236, XS244, XS311
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180 & XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, XS3, XS37, XS70, XS90, XS94 & XS119
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	200	15 & 130
12.5	Soups and broths	200	15 & 130
12.6	Sauces and like products	200	15, 130 & XS302
12.8	Yeast and like products	200	15
13.6	Food supplements	400	15 & 196
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200	15 & 130
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	200	15 & 130

BUTYLATED HYDROXYTOLUENE

INS	Name of additive
321	Butylated hydroxytoluene (BHT)

Food category No.	Food category	ML (mg/kg)	Remark
01.3.2	Beverage whiteners	100	15 & 195
01.5.1	Milk powder and cream powder (plain)	200	15 & 196
02.1.1	Butter oil, anhydrous milkfat, ghee	75	15, 133 & 171
02.1.2	Vegetable oils and fats	200	15 & 130

02.1.3	Lard, tallow, fish oil, and other animal fats	200	15 & 130
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	15 & 130
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	200	15 & 130
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200	15 & 130
03.0	Edible ices, including sherbet and sorbet	100	15 & 195
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200	15, 76 & 196
05.1.4	Cocoa and chocolate products	200	15, 130, 303
05.1.5	Imitation chocolate, chocolate substitute products	200	15 & 197
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	15, 130, XS309R
05.3	Chewing gum	400	130
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	200	15 & 130
06.3	Breakfast cereals, including rolled oats	100	15 & 196
06.4.3	Pre-cooked pastas and noodles and like products	200	15 & 130
07.0	Bakery wares	200	15 & 180
08.2	Processed meat, poultry and game products in whole pieces or cuts	100	15, 130, 167, XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	100	15, 130, 162, XS88, XS89 & XS98
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, 392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, XS166
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products,	200	15, 196,

	including mollusks, crustaceans, and echinoderms		XS167, XS189, XS222, XS236, XS244 & XS311
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180 & XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	200	15, 180, XS3, XS37, XS70, XS90, XS94 & XS119
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	200	15 & 130
12.5	Soups and broths	200	15, 130 & 340
12.6	Sauces and like products	100	15, 130 & XS302
13.6	Food supplements	400	15 & 196
15.0	Ready-to-eat savouries	200	15 & 130

LECITHIN

INS Name of additive

322(i) Lecithin

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	410
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.1.2	Vegetable oils and fats	GMP	277
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	

06.2.1	Flours	GMP	25 & 28
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	5000	72
13.1.2	Follow-up formulae	5000	72
13.1.3	Formulae for special medical purposes for infants	5000	72
13.2	Complementary foods for infants and young children	5000	271 & 274

14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160
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SODIUM LACTATE

INS	Name of additive
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325	Sodium lactate
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Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	437, XS167, XS189, XS222, XS236, XS244
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
13.2	Complementary foods for infants and young children	GMP	83, 239, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POTASSIUM LACTATE

INS	Name of additive
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Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	382, XS167, XS189, XS222, XS236, XS244, XS311
13.2	Complementary foods for infants and young children	GMP	83 & 239

CALCIUM LACTATE

INS	Name of additive		
327	Calcium lactate		
Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000	58
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products,	GMP	437,

	including mollusks, crustaceans, and echinoderms		XS167, XS189, XS222, XS236, XS244
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	GMP	83 & 239
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CITRIC ACID

INS	Name of additive
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330	Citric acid
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Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	407
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.6.6	Whey protein cheese	GMP	
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171
02.1.2	Vegetable oils and fats	GMP	15 & 277
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	242, 262, 264 & 265
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	15 & 281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312,

			XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	331, 391, 392, XS36, XS95, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	437, XS167, XS189, XS222, XS236
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	GMP	72
13.2	Complementary foods for infants and young children	5000	238
14.1.2.1	Fruit juice	3000	122
14.1.2.2	Vegetable juice	GMP	
14.1.2.3	Concentrates for fruit juice	3000	122 & 127
14.1.2.4	Concentrates for vegetable juice	GMP	
14.1.3.1	Fruit nectar	5000	
14.1.3.2	Vegetable nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	5000	127
14.1.3.4	Concentrates for vegetable nectar	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM DIHYDROGEN CITRATE

INS	Name of additive
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331(i) Sodium dihydrogen citrate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171
02.1.2	Vegetable oils and fats	GMP	277
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	253, 391, XS36, XS92, XS95, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	55 & 72
13.1.2	Follow-up formulae	GMP	72 & 316
13.1.3	Formulae for special medical purposes for infants	GMP	55 & 72
13.2	Complementary foods for infants and young children	5000	238, 240, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

TRISODIUM CITRATE

INS Name of additive

331(iii) Trisodium citrate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	410
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171
02.1.2	Vegetable oils and fats	GMP	277
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.2.1	Flours	GMP	25
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	253, 391, XS36,

			XS92, XS95, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	55 & 72
13.1.2	Follow-up formulae	GMP	72 & 316
13.1.3	Formulae for special medical purposes for infants	GMP	55 & 72
13.2	Complementary foods for infants and young children	5000	238, 240, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POTASSIUM DIHYDROGEN CITRATE

INS	Name of additive
332(i)	Potassium dihydrogen citrate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts	GMP	29

	and seeds		
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	253, 391, XS36, XS92, XS95, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	55 & 72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	GMP	55 & 72
13.2	Complementary foods for infants and young children	GMP	239
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

TRIPOTASSIUM CITRATE

INS	Name of additive
332(ii)	Tripotassium citrate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	261
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	

02.1.2	Vegetable oils and fats	GMP	277, XS33
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	253, 391, XS36, XS92, XS95, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	GMP	55 & 72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	GMP	55 & 72
13.2	Complementary foods for infants and young children	GMP	239
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

TRICALCIUM CITRATE

INS Name of additive

333(iii) Tricalcium citrate

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
02.1.2	Vegetable oils and fats	GMP	277, XS33

04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS166, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
13.2	Complementary foods for infants and young children	GMP	239

TARTRATES

INS	Name of additive
334	L(+)-Tartaric acid
335(ii)	Sodium L(+)-tartrate
337	Potassium sodium L(+)-tartrate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	2000	45 & 230
01.6.1	Unripened cheese	1500	45 & 351
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	2000	45, XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100	45 & 361
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	100	45
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100	45
03.0	Edible ices, including sherbet and sorbet	4000	45
04.1.2.3	Fruit in vinegar, oil, or brine	1000	45
04.1.2.5	Jams, jellies, marmelades	3000	45

04.1.2.7	Candied fruit	20000	45
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000	45
04.1.2.11	Fruit fillings for pastries	10000	45
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	15000	45, XS38 & XS115
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1300	45, XS13, XS38, XS57, XS145, XS257R, XS259R, XS297
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000	45, 97 & 128
05.1.2	Cocoa mixes (syrops)	2000	45
05.1.3	Cocoa-based spreads, including fillings	2000	45, XS86
05.1.4	Cocoa and chocolate products	5000	45 & 128
05.1.5	Imitation chocolate, chocolate substitute products	5000	45
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	2000	45 & XS309R
05.3	Chewing gum	30000	45
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	8000	45
06.2.1	Flours	5000	45 & 186
06.2.2	Starches	2000	45
06.4.1	Fresh pastas and noodles and like products	5000	45 & 128
06.4.3	Pre-cooked pastas and noodles and like products	7500	45, 128 & 194
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	2860	45
07.1	Bread and ordinary bakery wares	4000	45, 388
07.2.1	Cakes, cookies and pies (e.g. fruit-filled or custard types)	5000	45
07.2.2	Other fine bakery products (e.g. doughnuts, sweet rolls, scones and muffins)	500	45
07.2.3	Mixes for fine bakery wares	8000	11, 45
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	500	45

08.3.2	Heat-treated processed comminuted meat, poultry and game products	500	45, XS88, XS89, XS98
08.3.3	Frozen processed comminuted meat, poultry, and game products	500	45
08.4	Edible casings (e.g. sausage casings)	2000	45, 365
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200	45, 128, 382, XS167, XS189, XS222, XS236, XS244
10.4	Egg-based desserts (e.g. custard)	2000	45
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	2000	45
12.2.2	Seasonings and condiments	7500	45
12.4	Mustards	5000	45
12.5	Soups and broths	5000	45, XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2000	45
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	5000	45, XS306R
12.6.3	Mixes for sauces and gravies	5000	45, 127
13.2	Complementary foods for infants and young children	5000	45, 364, XS73, 428
13.6	Food supplements	5000	45
14.1.2.1	Fruit juice	4000	45, 128 & 129
14.1.2.3	Concentrates for fruit juice	4000	45, 127, 128 & 129
14.1.3.1	Fruit nectar	4000	45 & 128
14.1.3.3	Concentrates for fruit nectar	4000	45, 127 & 128
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	800	45
14.2.1	Beer and malt beverages	2000	45
14.2.2	Cider and perry	2000	45
14.2.4	Wines (other than grape)	4000	45
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	3000	45, 431

14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	4000	45
15.0	Ready-to-eat savouries	2000	45

PHOSPHATES

INS	Name of additive
338	Phosphoric acid
339(i)	Sodium dihydrogen phosphate
339(ii)	Disodium hydrogen phosphate
339(iii)	Trisodium phosphate
340(i)	Potassium dihydrogen phosphate
340(ii)	Dipotassium hydrogen phosphate
340(iii)	Tripotassium hydrogen phosphate
341(i)	Calcium dihydrogen phosphate
341(ii)	Dicalcium hydrogen phosphate
341(iii)	Tricalcium phosphate
342(i)	Ammonium dihydrogen phosphate
342(ii)	Diammonium hydrogen phosphate
343(i)	Magnesium dihydrogen phosphate
343(ii)	Magnesium hydrogen phosphate
343(iii)	Trimagnesium phosphate
450(i)	Disodium diphosphate
450(ii)	Trisodium diphosphate
450(iii)	Tetrasodium diphosphate
450(v)	Tetrasodium diphosphate
450(vi)	Dicalcium diphosphate
450(vii)	Calcium dihydrogen diphosphate
450(ix)	Magnesium dihydrogen diphosphate
451(i)	Pentasodium triphosphate
451(ii)	Pentapotassium triphosphate
452(i)	Sodium polyphosphate
452(ii)	Potassium polyphosphate
452(iii)	Sodium calcium polyphosphate
452(iv)	Calcium polyphosphate
452(v)	Ammonium polyphosphate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.1	Fluid milk (plain)	1500	33 & 227
01.1.2	Other fluid milk (plain)	2200	33, 364, 411
01.1.3	Fluid buttermilk (plain)	1500	33, 227, 397
01.1.4	Flavoured fluid milk drinks	1500	33, 364, 398
01.2	Fermented and renneted milk products (plain)	1000	33
01.3.1	Condensed milk (plain)	880	33
01.3.2	Beverage whiteners	13000	33
01.4	Cream (plain) and the like	2200	33
01.5.1	Milk powder and cream powder (plain)	4400	33
01.5.2	Milk and cream powder analogues	4400	33 & 88
01.6.1	Unripened cheese	4400	33
01.6.4	Processed cheese	9000	33
01.6.5	Cheese analogues	9000	33
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	1500	33
01.8.1	Liquid whey and whey products, excluding whey cheeses	880	33 & 228
01.8.2	Dried whey and whey products, excluding whey cheeses	4400	33
02.2.1	Butter	880	33 & 34
02.2.2	Fat spreads, dairy fat spreads and blended spreads	2200	33
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	2200	33
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1500	33
03.0	Edible ices, including sherbet and sorbet	7500	33
04.1.2.3	Fruit in vinegar, oil, or brine	2200	33
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1100	33
04.1.2.7	Candied fruit	10	33
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350	33

04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1500	33
04.1.2.10	Fermented fruit products	2200	33
04.1.2.11	Fruit fillings for pastries	1500	33
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1760	16 & 33
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5600	33 & 76
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000	33 & 76
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000	33 & 76
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2200	33
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2200	33
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	2200	33 & 76
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	2200	33
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2200	33
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2200	33 & 76
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	1100	33, 97
05.1.3	Cocoa-based spreads, including fillings	880	33 & XS86
05.1.4	Cocoa and chocolate products	1100	33
05.1.5	Imitation chocolate, chocolate substitute products	2200	33
05.2	Confectionery including hard and soft candy, nougats, etc. other	2200	33,

	than food categories 05.1, 05.3 and 05.4		XS309R
05.3	Chewing gum	44000	33
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1500	33
06.2.1	Flours	2500	33 & 225
06.3	Breakfast cereals, including rolled oats	2200	33
06.4.1	Fresh pastas and noodles and like products	2500	33 & 211
06.4.2	Dried pastas and noodles and like products	900	33 & 211
06.4.3	Pre-cooked pastas and noodles and like products	2500	33 & 211
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	7000	33
06.6	Batters (e.g. for breading or batters for fish or poultry)	5600	33
06.8.1	Soybean-based beverages	1300	33
06.8.3	Soybean curd (tofu)	100	33
07.1.1.2	Soda breads	9300	33 & 229
07.1.2	Crackers, excluding sweet crackers	9300	33 & 229
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	9300	33 & 229
07.1.4	Bread-type products, including bread stuffing and bread crumbs	9300	33 & 229
07.1.5	Steamed breads and buns	9300	33 & 229
07.1.6	Mixes for bread and ordinary bakery wares	9300	33 & 229
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	9300	33 & 229
08.2.1	Non-heat treated processed meat, poultry, and game products in whole pieces or cuts	2200	33
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	1320	33 & 289
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	2200	33
08.3	Processed comminuted meat, poultry and game products	2200	33, 302 & XS88
08.4	Edible casings (e.g. sausage casings)	1100	33
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	2200	33, 393, 394, XS36, XS191, XS292, XS312
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	2200	33 & 299

09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	2200	33
09.2.4.1	Cooked fish and fish products	2200	33
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2200	33
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	2200	33,334, XS167, XS189, XS222, XS236, XS244, XS311
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	2200	33
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	2200	33
09.3.3	Salmon substitutes, caviar, and other fish roe products	2200	33, XS291
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	2200	33 & 193
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	2200	33, 436, XS3, XS94 & XS119
10.2.1	Liquid egg products	4400	33 & 67
10.2.2	Frozen egg products	1290	33
10.3	Preserved eggs, including alkaline, salted, and canned eggs	1000	33
10.4	Egg-based desserts (e.g. custard)	1400	33
11.1.2	Powdered sugar, powdered dextrose	6600	33 & 56
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	1320	33
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000	33
12.1.1	Salt	8800	33
12.1.2	Salt Substitutes	4400	33
12.2.2	Seasonings and condiments	2200	33 & 226
12.5	Soups and broths	1500	33 & 343
12.6	Sauces and like products	2200	33, XS302
12.9	Soybean-based seasonings and condiments	1200	33
13.2	Complementary foods for infants and young children	4400	33 & 230

13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	2200	33
13.4	Dietetic formulae for slimming purposes and weight reduction	2200	33
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	2200	33
13.6	Food supplements	2200	33
14.1.2.1	Fruit juice	1000	33, 40 & 122
14.1.2.3	Concentrates for fruit juice	1000	33, 40, 122 & 127
14.1.3.1	Fruit nectar	1000	33, 40 & 122
14.1.3.3	Concentrates for fruit nectar	1000	33, 40, 122 & 127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000	33
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	300	33 & 160
14.2.2	Cider and perry	880	33
14.2.5	Mead	440	33 & 88
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	440	33 & 88
15.0	Ready-to-eat savouries	2200	33

SODIUM DL-MALATE

INS	Name of additive
350(ii)	Sodium DL-malate

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	

09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ADIPATES

INS Name of additive

355 Adipic acid

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	1500	1

SODIUM FUMARATES

INS Name of additive

365 Sodium fumarates (salts)

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

FERRIC AMMONIUM CITRATE

INS	Name of additive
381	Ferric ammonium citrate

Food category No.	Food category	ML (mg/kg)	Remark
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	10	23

ISOPROPYL CITRATES

INS	Name of additive
384	Isopropyl citrates (salts)

Food category No.	Food category	ML (mg/kg)	Remark
02.1.2	Vegetable oils and fats	200	
02.1.3	Lard, tallow, fish oil, and other animal fats	200	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100	
08.1.2	Fresh meat, poultry, and game, comminuted	200	
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	200	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	200	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	

ETHYLENE DIAMINE TETRA ACETATES

INS	Name of additive
385	Calcium disodium ethylenediaminetetraacetate
386	Disodium ethylenediaminetetraacetate (EDTA)

Food category No.	Food category	ML (mg/kg)	Remark
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100	21
04.1.2.2	Dried fruit	265	21
04.1.2.3	Fruit in vinegar, oil, or brine	250	21
04.1.2.5	Jams, jellies, marmelades	130	21
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	100	21

04.1.2.10	Fermented fruit products	250	21
04.1.2.11	Fruit fillings for pastries	650	21
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	100	21 & 110
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800	21, 64 & 297
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	250	21
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	365	21
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	250	21
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	80	21
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	250	21
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	250	21
05.1.3	Cocoa-based spreads, including fillings	50	21 & XS86
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	315	21
08.3.2	Heat-treated processed comminuted meat, poultry and game products	35	21, XS88, XS89 & XS98
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	75	21, 392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315

09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	75	21, XS166
09.2.4.1	Cooked fish and fish products	50	21
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	250	21
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	340	21, 310, XS3, XS70, XS90, XS94 & XS119
10.2.3	Dried and/or heat coagulated egg products	200	21 & 47
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000	21 & 96
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	70	21
12.4	Mustards	75	21
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	100	21
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	75	21
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	100	21
13.6	Food supplements	150	21
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	21
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	35	21
14.2.1	Beer and malt beverages	25	21
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	25	21
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	25	21

THIODIPROPIONATES

INS	Name of additive
388	Thiodipropionic acid
389	Dilauryl thiodipropionate

Food category No.	Food category	ML (mg/kg)	Remark
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02.1.2	Vegetable oils and fats	200	46
02.1.3	Lard, tallow, fish oil, and other animal fats	200	46
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200	46
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200	15, 46, XS166
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000	15 & 46
15.0	Ready-to-eat savouries	200	46

ALGINIC ACID

INS	Name of additive
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400	Alginic acid
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16

09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM ALGINATE

INS	Name of additive
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401	Sodium alginate
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	210 & 332

09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16 & 325
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POTASSIUM ALGINATE

INS	Name of additive
402	Potassium alginate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including	GMP	63

	mollusks, crustaceans, and echinoderms		
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

AMMONIUM ALGINATE

INS	Name of additive
403	Ammonium alginate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

CALCIUM ALGINATE

INS	Name of additive
404	Calcium alginate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks,	GMP	XS36,

	crustaceans, and echinoderms		XS92, XS95, XS165, XS190, XS191, XS292 XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

PROPYLENE GLYCOL ALGINATE

INS	Name of additive		
405	Propylene glycol alginate		
Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	1300	XS243
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	5000	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	5000	234
01.3.2	Beverage whiteners	5000	XS250 & XS252
01.4.3	Clotted cream (plain)	5000	
01.4.4	Cream analogues	2500	
01.6.1	Unripened cheese	5000	XS262
01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	16000	353
01.6.4	Processed cheese	9000	
01.6.5	Cheese analogues	9000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	6000	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	3000	359
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	3000	
03.0	Edible ices, including sherbet and sorbet	10000	
04.1.2.5	Jams, jellies, marmelades	5000	409, XS296
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and	5000	XS240 &

	coconut milk		XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	6000	
04.1.2.11	Fruit fillings for pastries	5000	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	6000	386, XS38, XS260
05.1.2	Cocoa mixes (syrops)	10000	
05.1.3	Cocoa-based spreads, including fillings	10000	XS86
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	XS309R
05.3	Chewing gum	5000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	5000	
06.4.1	Fresh pastas and noodles and like products	10000	370
06.4.2	Dried pastas and noodles and like products	5000	211
06.4.3	Pre-cooked pastas and noodles and like products	5000	194 & 371
07.1.1.1	Yeast-leavened breads and specialty breads	4000	
07.1.2	Crackers, excluding sweet crackers	2000	
07.1.5	Steamed breads and buns	500	
07.1.6	Mixes for bread and ordinary bakery wares	20000	11
07.2.1	Cakes, cookies and pies (e.g. fruit-filled or custard types)	3000	
07.2.2	Other fine bakery products (e.g. doughnuts, sweet rolls, scones and muffins)	2000	
07.2.3	Mixes for fine bakery wares	10000	11
08.3	Processed comminuted meat, poultry and game products	3000	XS88, XS89 & XS98
10.2.1	Liquid egg products	10000	
10.2.2	Frozen egg products	10000	
10.4	Egg-based desserts (e.g. custard)	3000	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	10000	258
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	10000	XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	8000	

12.6.3	Mixes for sauces and gravies	8000	127
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1200	
13.4	Dietetic formulae for slimming purposes and weight reduction	1200	
13.6	Food supplements	1000	
14.1.1	Waters	500	
14.1.2	Fruit and vegetable juices	500	
14.1.3	Fruit and vegetable nectars	500	127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500	160
14.2.1	Beer and malt beverages	500	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	3000	

AGAR

INS Name of additive

406 Agar

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	3, 53, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312,

			XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 325
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CARRAGEENAN

INS	Name of additive
407	Carrageenan

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	

06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	332, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16 & 325
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325, 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	300	378 & 381
13.1.2	Follow-up formulae	300	72,151, 328 & 329
13.1.3	Formulae for special medical purposes for infants	1000	379 & 381
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

PROCESSED EUCHEUMA SEAWEED (PES)

INS	Name of additive		
407a	Processed eucheuma seaweed (PES)		
Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	332, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177, 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222,

XS236,
XS244,
XS311

10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CAROB BEAN GUM

INS	Name of additive
410	Carob bean gum

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41

10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.1.1	Infant formulae	1000	72
13.1.2	Follow-up formulae	1000	72
13.1.3	Formulae for special medical purposes for infants	1000	72
13.2	Complementary foods for infants and young children	2000	271 & 272
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

GUAR GUM

INS	Name of additive
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412	Guar gum
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	73, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315

09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	1000	14 & 72
13.1.2	Follow-up formulae	1000	72
13.1.3	Formulae for special medical purposes for infants	1000	14 & 72
13.2	Complementary foods for infants and young children	2000	271 & 272
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

TRAGACANTH GUM

INS	Name of additive		
413	Tragacanth gum		

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256

08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

GUM ARABIC (ACACIA GUM)

INS	Name of additive
414	Gum arabic

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236

01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	10000	239 & 273
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

XANTHAN GUM

INS	Name of additive
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241 & 327
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311

10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	10000	239 & 273
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

KARAYA GUM

INS Name of additive

416 Karaya gum

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	200	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

TARA GUM

INS Name of additive

417 Tara gum

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	73, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	73, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189,

XS222,
XS236,
XS244,
XS311

10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

GELLAN GUM

INS	Name of additive
418	Gellan gum

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41

10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

MANNITOL

INS Name of additive

421 Mannitol

Food category No.	Food category	ML (mg/kg)	Remark
01.2.2	Renneted milk (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311

10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	

GLYCEROL

INS Name of additive

422 Glycerol

Food category No.	Food category	ML (mg/kg)	Remark
01.2.2	Renneted milk (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CURDLAN

INS	Name of additive
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424	Curdlan
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Food category No.	Food category	ML (mg/kg)	Remark
06.4.1	Fresh pastas and noodles and like products	GMP	211

KONJAC FLOUR

INS	Name of additive
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425	Konjac flour
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325, 332, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and	GMP	41, 325 &

	echinoderms		332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POLYOXYETHYLENE STEARATES

INS	Name of additive
430	Polyoxyethylene (8) stearate
431	Polyoxyethylene (40) stearate

Food category No.	Food category	ML (mg/kg)	Remark
05.3	Chewing gum	200	
06.4.3	Pre-cooked pastas and noodles and like products	5000	2 & 194
07.1	Bread and ordinary bakery wares	3000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	3000	

POLYSORBATES

INS	Name of additive
432	Polyoxyethylene (20) sorbitan monolaurate
433	Polyoxyethylene (20) sorbitan monooleate
434	Polyoxyethylene (20) sorbitan monopalmitate
435	Polyoxyethylene (20) sorbitan monostearate
436	Polyoxyethylene (20) sorbitan tristearate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	3000	

01.3.2	Beverage whiteners	4000	
01.4.1	Pasteurized cream (plain)	1000	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	1000	
01.4.3	Clotted cream (plain)	1000	
01.4.4	Cream analogues	5000	
01.5.2	Milk and cream powder analogues	4000	
01.6.1	Unripened cheese	80	38
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	3000	
02.1.2	Vegetable oils and fats	5000	102
02.1.3	Lard, tallow, fish oil, and other animal fats	5000	102
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	360, 364
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	5000	102
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	3000	102
03.0	Edible ices, including sherbet and sorbet	1000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000	154
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	3000	
04.1.2.11	Fruit fillings for pastries	3000	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	3000	
05.1.2	Cocoa mixes (syrups)	500	
05.1.3	Cocoa-based spreads, including fillings	1000	XS86
05.1.4	Cocoa and chocolate products	5000	101
05.1.5	Imitation chocolate, chocolate substitute products	5000	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	XS309R
05.3	Chewing gum	5000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	3000	
06.4.2	Dried pastas and noodles and like products	5000	
06.4.3	Pre-cooked pastas and noodles and like products	5000	153

06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	3000	
06.6	Batters (e.g. for breading or batters for fish or poultry)	5000	2
07.1.1	Breads and rolls	3000	
07.1.2	Crackers, excluding sweet crackers	5000	11
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	3000	11
07.1.4	Bread-type products, including bread stuffing and bread crumbs	3000	11
07.1.5	Steamed breads and buns	3000	11
07.1.6	Mixes for bread and ordinary bakery wares	3000	11
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	3000	
08.2	Processed meat, poultry and game products in whole pieces or cuts	5000	XS96 & XS97
08.3	Processed comminuted meat, poultry and game products	5000	XS88, XS89 & XS98
08.4	Edible casings (e.g. sausage casings)	1500	
10.4	Egg-based desserts (e.g. custard)	3000	
12.1.1	Salt	10	
12.2.1	Herbs and spices	2000	
12.2.2	Seasonings and condiments	5000	
12.5	Soups and broths	1000	
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	3000	
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	5000	
12.6.3	Mixes for sauces and gravies	5000	127
12.6.4	Clear sauces (e.g. fish sauce)	5000	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	2000	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000	
13.4	Dietetic formulae for slimming purposes and weight reduction	1000	
13.6	Food supplements	25000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500	127

14.2.6	Distilled spirituous beverages containing more than 15% alcohol	120
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	120

PECTINS

INS	Name of additive
440	Pectins

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41

09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.2	Follow-up formulae	10000	72
13.2	Complementary foods for infants and young children	10000	273, 282 & 283
14.1.2.1	Fruit juice	GMP	35
14.1.2.3	Concentrates for fruit juice	GMP	35 & 127
14.1.3.1	Fruit nectar	GMP	
14.1.3.2	Vegetable nectar	GMP	
14.1.3.3	Concentrates for fruit nectar	GMP	127
14.1.3.4	Concentrates for vegetable nectar	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

AMMONIUM SALTS OF PHOSPHATIDIC ACID

INS	Name of additive
442	Ammonium salts of phosphatidic acid

Food category No.	Food category	ML (mg/kg)	Remark
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	231
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	10000	97
05.1.4	Cocoa and chocolate products	10000	101
05.1.5	Imitation chocolate, chocolate substitute products	10000	

SUCROSE ACETATE ISOBUTYRATE

INS	Name of additive
444	Sucrose acetate isobutyrate

Food	Food category	ML	Remark
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category No.		(mg/kg)
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500

GLYCEROL ESTER OF WOOD ROSIN

INS	Name of additive
445(iii)	Glycerol ester of wood rosin

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	110	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	110	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	150	

CYCLODEXTRIN, BETA-

INS	Name of additive
459	Cyclodextrin, beta-

Food category No.	Food category	ML (mg/kg)	Remark
05.3	Chewing gum	20000	
06.4.3	Pre-cooked pastas and noodles and like products	1000	153
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500	

MICROCRYSTALLINE CELLULOSE (CELLULOSE GEL)

INS	Name of additive
460(i)	Microcrystalline cellulose (Cellulose gel)

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236

01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325, 332, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.2	Brown sugar excluding products of food category 11.1.3	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POWDERED CELLULOSE

INS **Name of additive**
460(ii) Powdered cellulose

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

METHYL CELLULOSE

INS Name of additive

461 Methyl cellulose

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	332, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

HYDROXYPROPYL CELLULOSE

INS	Name of additive
463	Hydroxypropyl cellulose

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236,

			XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

HYDROXYPROPYL METHYL CELLULOSE

INS Name of additive

464 Hydroxypropyl methyl cellulose

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189,

			XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

METHYL ETHYL CELLULOSE

INS Name of additive

465 Methyl ethyl cellulose

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167,

XS189,
XS222,
XS236,
XS244,
XS311

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM CARBOXYMETHYL CELLULOSE (CELLULOSE GUM)

INS Name of additive

466 Sodium carboxymethyl cellulose

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	332, 391, XS36, XS92, XS95, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	177 & 332
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	16 & 325

09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP	16 & 325
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, 325 & 332
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, 332, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SALTS OF MYRISTIC, PALMITIC AND STEARIC ACIDS WITH AMMONIA, CALCIUM, POTASSIUM AND SODIUM

INS Name of additive

470(i)	Salts of myristic, palmitic and stearic acids (ammonia, calcium, potassium and sodium)
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Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16, 71 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	71 & 281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	71, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315

09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, 71 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	71 & 258
12.1.1	Salt	GMP	71
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SALTS OF OLEIC ACID WITH CALCIUM, POTASSIUM AND SODIUM

INS Name of additive

470(ii) Salts of oleic acid (calcium, sodium and potassium)

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312,

			XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

MONO- AND DI-GLYCERIDES OF FATTY ACIDS

INS Name of additive

471 Mono- and di-glycerides of fatty acids

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	410
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	408, XS211
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.2	Frozen battered fish, fish fillets, and fish products, including	GMP	41

	mollusks, crustaceans, and echinoderms		
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	4000	72
13.1.2	Follow-up formulae	4000	72
13.1.3	Formulae for special medical purposes for infants	4000	72
13.2	Complementary foods for infants and young children	5000	268 & 275
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ACETIC AND FATTY ACID ESTERS OF GLYCEROL

INS Name of additive

472a Acetic and fatty acid esters of glycerol

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	407
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326

08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	5000	239, 268
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

LACTIC AND FATTY ACID ESTERS OF GLYCEROL

INS Name of additive

472b Lactic and fatty acid esters of glycerol

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	407
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236

01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	5000	239 & 268
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CITRIC AND FATTY ACID ESTERS OF GLYCEROL

INS Name of additive

472c Citric and fatty acid esters of glycerol

Food category No.	Food category	ML (mg/ kg)	Remark
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01.1.2	Other fluid milk (plain)	GMP	407
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
02.1.2	Vegetable oils and fats	100	277
02.1.3	Lard, tallow, fish oil, and other animal fats	100	322
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
9.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1	Infant formulae, follow-up formulae, and formulae for	9000	380 & 381
13.2	Complementary foods for infants and young children	5000	239 & 268
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

INS Name of additive

472e Diacetyltartaric and fatty acid esters of glycerol

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	120	407
01.1.4	Flavoured fluid milk drinks	500	399
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	5000	
01.2.2	Renneted milk (plain)	5000	
01.3.2	Beverage whiteners	5000	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	6000	
01.4.3	Clotted cream (plain)	5000	
01.4.4	Cream analogues	6000	
01.5.1	Milk powder and cream powder (plain)	10000	
01.5.2	Milk and cream powder analogues	10000	
01.6.2.1	Ripened cheese (including rind)	10000	
01.6.4	Processed cheese	10000	
01.6.5	Cheese analogues	10000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	10000	
02.1.2	Vegetable oils and fats	10000	
02.1.3	Lard, tallow, fish oil, and other animal fats	10000	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	10000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000	
03.0	Edible ices, including sherbet and sorbet	1000	

04.1.2.2	Dried fruit	10000	
04.1.2.3	Fruit in vinegar, oil, or brine	1000	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	5000	
04.1.2.7	Candied fruit	1000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	2500	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	2500	
04.1.2.10	Fermented fruit products	2500	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10000	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2500	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	2500	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2500	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2500	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	10000	XS309R
05.3	Chewing gum	50000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	10000	
06.2	Flours and starches (including soybean powder)	3000	186
06.4.2	Dried pastas and noodles and like products	5000	
06.4.3	Pre-cooked pastas and noodles and like products	10000	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	
06.6	Batters (e.g. for breading or batters for fish or poultry)	5000	
06.8.1	Soybean-based beverages	2000	347

07.1	Bread and ordinary bakery wares	6000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	20000	
10.2.3	Dried and/or heat coagulated egg products	5000	
10.4	Egg-based desserts (e.g. custard)	5000	
12.1.2	Salt Substitutes	16000	
12.4	Mustards	10000	
12.5	Soups and broths	5000	XS117
12.6	Sauces and like products	10000	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	5000	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000	
13.4	Dietetic formulae for slimming purposes and weight reduction	5000	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	5000	
13.6	Food supplements	5000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500	142
14.2.2	Cider and perry	5000	
14.2.4	Wines (other than grape)	5000	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	10000	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	20000	
15.2	Processed nuts, including coated nuts and nut mixtures (e.g. dried fruit)	10000	

SUCROSE ESTERS OF FATTY ACIDS

INS Name of additive

473 Sucrose esters of fatty acids

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	1000	348, 410

01.1.4	Flavoured fluid milk drinks	5000	348
01.3.2	Beverage whiteners	20000	348, XS250 & XS252
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	5000	348
01.4.4	Cream analogues	10000	348
01.5.2	Milk and cream powder analogues	5000	350
01.6.4	Processed cheese	3000	348
01.6.5	Cheese analogues	10000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	348 & XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	348 & 360
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	5000	102 & 363
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000	348
03.0	Edible ices, including sherbet and sorbet	5000	348
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1500	348 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	348
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	10000	97 & XS141
05.1.2	Cocoa mixes (syrops)	10000	348
05.1.3	Cocoa-based spreads, including fillings	10000	348, XS86
05.1.5	Imitation chocolate, chocolate substitute products	6000	348
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	348, XS309R
05.3	Chewing gum	12000	348
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	5000	348
06.3	Breakfast cereals, including rolled oats	10000	
06.4.1	Fresh pastas and noodles and like products	2000	348 & 370
06.4.2	Dried pastas and noodles and like products	4000	211 & 348
06.4.3	Pre-cooked pastas and noodles and like products	2000	194 & 348
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	348

06.6	Batters (e.g. for breading or batters for fish or poultry)	10000	348
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	10000	348
06.8.1	Soybean-based beverages	20000	348
07.1	Bread and ordinary bakery wares	3000	348
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000	348
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	5000	15, XS96 & XS97
08.3.2	Heat-treated processed comminuted meat, poultry and game products	5000	15, 373, XS96 & XS97
09.2.4.1	Cooked fish and fish products	4500	241, 348
10.4	Egg-based desserts (e.g. custard)	5000	348
12.2.1	Herbs and spices	2000	348, 422
12.2.2	Seasonings and condiments	20000	423, 424, 425
12.5	Soups and broths	2000	345
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2000	348, 426
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	10000	348
12.6.3	Mixes for sauces and gravies	10000	127, 348
12.6.4	Clear sauces (e.g. fish sauce)	10000	348, XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000	348
13.4	Dietetic formulae for slimming purposes and weight reduction	5000	348
13.6	Food supplements	20000	348
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	219, 348
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000	176, 348
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000	348, 431
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000	348, 433

SUCROSE OLIGOESTERS, TYPE I AND TYPE II

INS	Name of additive
473a	Sucrose Oligoesters, Type I and Type II

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	1000	348, 410
01.1.4	Flavoured fluid milk drinks	5000	348
01.3.2	Beverage whiteners	20000	348, XS250 & XS252
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	5000	348
01.4.4	Cream analogues	10000	348
01.6.4	Processed cheese	3000	348
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	348 & XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	348 & 360
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	5000	102 & 363
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000	348
03.0	Edible ices, including sherbet and sorbet	5000	348
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1500	348 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	348
05.1.2	Cocoa mixes (syrops)	10000	348
05.1.3	Cocoa-based spreads, including fillings	10000	348
05.1.5	Imitation chocolate, chocolate substitute products	6000	348
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	348 & XS309R
05.3	Chewing gum	12000	348
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	5000	348, 387
06.4.1	Fresh pastas and noodles and like products	2000	348 & 370
06.4.2	Dried pastas and noodles and like products	4000	211 & 348
06.4.3	Pre-cooked pastas and noodles and like products	2000	194 & 348
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	348
06.6	Batters (e.g. for breading or batters for fish or poultry)	10000	348

06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	10000	348
06.8.1	Soybean-based beverages	20000	348
07.1	Bread and ordinary bakery wares	3000	348
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000	348
09.2.4.1	Cooked fish and fish products	4500	241, 348
10.4	Egg-based desserts (e.g. custard)	5000	348
12.2.1	Herbs and spices	2000	348, 422
12.2.2	Seasonings and condiments	20000	423, 424, 425
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2000	348, 426
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	10000	348
12.6.3	Mixes for sauces and gravies	10000	127, 348
12.6.4	Clear sauces (e.g. fish sauce)	10000	348, XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000	348
13.4	Dietetic formulae for slimming purposes and weight reduction	5000	348
13.6	Food supplements	20000	348
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	219, 348
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000	176, 348
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000	348, 431
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000	348, 433

SUCROGLYCERIDES

INS Name of additive

474 Sucroglycerides

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	1000	348, 410
01.1.4	Flavoured fluid milk drinks	5000	348
01.3.2	Beverage whiteners	20000	348, XS250 & XS252

01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	5000	348
01.4.4	Cream analogues	10000	348
01.5.1	Milk powder and cream powder (plain)	10000	
01.6.4	Processed cheese	3000	348
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	348& XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	348 & 360
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	5000	102 & 363
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000	348
03.0	Edible ices, including sherbet and sorbet	5000	348
04.1.1.2	Surface-treated fresh fruit	GMP	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1500	348 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	348
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	5000	
05.1.2	Cocoa mixes (syrups)	10000	348
05.1.3	Cocoa-based spreads, including fillings	10000	348
05.1.5	Imitation chocolate, chocolate substitute products	6000	348
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	348, XS309R
05.3	Chewing gum	12000	348
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	5000	348
06.4.1	Fresh pastas and noodles and like products	2000	348 & 370
06.4.2	Dried pastas and noodles and like products	4000	211 & 348
06.4.3	Pre-cooked pastas and noodles and like products	2000	194 & 348
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	348
06.6	Batters (e.g. for breading or batters for fish or poultry)	10000	348
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	10000	348

06.8.1	Soybean-based beverages	20000	348
07.1	Bread and ordinary bakery wares	3000	348
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000	348
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	5000	15, XS96 & XS97
08.3.2	Heat-treated processed comminuted meat, poultry and game products	5000	15, XS88, XS89 & XS98
09.2.4.1	Cooked fish and fish products	4500	241, 348
10.4	Egg-based desserts (e.g. custard)	5000	348
12.2.1	Herbs and spices	2000	348, 422
12.5	Soups and broths	2000	345
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2000	348, 426
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	10000	348
12.6.3	Mixes for sauces and gravies	10000	127, 348
12.6.4	Clear sauces (e.g. fish sauce)	10000	348, XS302
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000	348
13.4	Dietetic formulae for slimming purposes and weight reduction	5000	348
13.6	Food supplements	20000	348
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	219, 348
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000	176, 348
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000	348, 431
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5000	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000	348, 433

POLYGLYCEROL ESTERS OF FATTY ACIDS

INS	Name of additive
475	Polyglycerol esters of fatty acids

Food category No.	Food category	ML (mg/kg)	Remark
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01.1.2	Other fluid milk (plain)	1000	410
01.1.4	Flavoured fluid milk drinks	2000	
01.3.2	Beverage whiteners	5000	352, XS250 & XS252
01.4.1	Pasteurized cream (plain)	6000	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	6000	
01.4.3	Clotted cream (plain)	6000	
01.4.4	Cream analogues	8000	
01.5.2	Milk and cream powder analogues	5000	XS251
01.6.4	Processed cheese	5000	
01.6.5	Cheese analogues	5000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	354 & XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	5000	359
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	20000	363
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	2000	
03.0	Edible ices, including sherbet and sorbet	5000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	5000	XS240 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	
04.1.2.11	Fruit fillings for pastries	2000	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000	97, XS141
05.1.5	Imitation chocolate, chocolate substitute products	2000	366
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	2000	367 & XS309R
05.3	Chewing gum	5000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	2000	368
06.3	Breakfast cereals, including rolled oats	10000	369
06.4.3	Pre-cooked pastas and noodles and like products	2000	194
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	9000	
07.1.1	Breads and rolls	10000	372

07.1.2	Crackers, excluding sweet crackers	6000	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	6000	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	10000	
07.1.5	Steamed breads and buns	10000	
07.1.6	Mixes for bread and ordinary bakery wares	15000	11
07.2.1	Cakes, cookies and pies (e.g. fruit-filled or custard types)	10000	
07.2.2	Other fine bakery products (e.g. doughnuts, sweet rolls, scones and muffins)	10000	
07.2.3	Mixes for fine bakery wares	15000	11
08.4	Edible casings (e.g. sausage casings)	5000	365
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000	241
09.2.4.1	Cooked fish and fish products	1000	412
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	5000	41
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	1000	414
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	1000	415
10.2	Egg products	1000	
10.4	Egg-based desserts (e.g. custard)	6000	
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	400	XS117
12.5.2	Mixed for soups and broths	3000	127, XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	5000	
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	5000	XS306R
12.6.3	Mixes for sauces and gravies	5000	127
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000	
13.4	Dietetic formulae for slimming purposes and weight reduction	1000	
13.6	Food supplements	18000	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	20	
15.1	Snacks - potato, cereal, flour or starch based (from roots and	2000	

tubers, pulses and legumes)

POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

INS Name of additive

476 Polyglycerol esters of interesterified ricinoleic acid

Food category No.	Food category	ML (mg/ kg)	Remark
01.5.2	Milk and cream powder analogues	5000	XS251
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	4000	359
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	10000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	2000	
03.0	Edible ices, including sherbet and sorbet	5000	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	2000	
04.1.2.11	Fruit fillings for pastries	2000	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000	97
05.1.4	Cocoa and chocolate products	5000	101
05.1.5	Imitation chocolate, chocolate substitute products	3000	366
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	3000	XS309R
05.3	Chewing gum	500	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	5000	
06.4.3	Pre-cooked pastas and noodles and like products	500	194
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	
08.4	Edible casings (e.g. sausage casings)	5000	365
09.2.4.1	Cooked fish and fish products	1000	412
10.2	Egg products	1000	
10.4	Egg-based desserts (e.g. custard)	1000	
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	5000	
12.6.3	Mixes for sauces and gravies	5000	127

PROPYLENE GLYCOL ESTERS OF FATTY ACIDS

INS	Name of additive		
477	Propylene glycol esters of fatty acids		
Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	5000	
01.3.2	Beverage whiteners	1000	
01.4.4	Cream analogues	5000	86
01.5.2	Milk and cream powder analogues	100000	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	
02.1.2	Vegetable oils and fats	10000	
02.1.3	Lard, tallow, fish oil, and other animal fats	10000	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	20000	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	30000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	40000	
03.0	Edible ices, including sherbet and sorbet	5000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	40000	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	40000	
04.1.2.11	Fruit fillings for pastries	40000	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	5000	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000	97 & XS141
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	XS309R
05.3	Chewing gum	20000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	40000	
06.4.3	Pre-cooked pastas and noodles and like products	5000	2 & 153
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	40000	
07.0	Bakery wares	15000	11 & 72

10.4	Egg-based desserts (e.g. custard)	40000
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	5000
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000
13.4	Dietetic formulae for slimming purposes and weight reduction	5000
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500

THERMALLY OXIDIZED SOYA BEAN OIL INTERACTED WITH MONO- AND DIGLYCERIDES OF FATTY ACIDS

INS Name of additive

479 Thermally oxidized soya bean oil interacted with mono- and diglycerides of fatty acids

Food category No.	Food category	ML (mg/kg)	Remark
02.2.2	Fat spreads, dairy fat spreads and blended spreads	5000	

DIOCTYL SODIUM SULFOSUCCINATE

INS Name of additive

480 Dioctyl sodium sulfosuccinate

Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	15	383, 384, 385

STEAROYL LACTYLATES

INS Name of additive

481(i) Sodium stearoyl lactylate

482(i) Calcium stearoyl lactylate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	1000	
01.3.2	Beverage whiteners	3000	XS250 & XS252
01.4.4	Cream analogues	5000	2
01.6.5	Cheese analogues	2000	

01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	355
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	3000	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000	
03.0	Edible ices, including sherbet and sorbet	5000	15
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	2000	XS240 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	
04.1.2.11	Fruit fillings for pastries	2000	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000	76
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	XS309R
05.3	Chewing gum	2000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	2000	
06.2.1	Flours	5000	186
06.3	Breakfast cereals, including rolled oats	5000	
06.4.2	Dried pastas and noodles and like products	5000	211
06.4.3	Pre-cooked pastas and noodles and like products	5000	194 & 371
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	6000	
07.1.1.1	Yeast-leavened breads and specialty breads	3000	388
07.1.1.2	Soda breads	3000	
07.1.2	Crackers, excluding sweet crackers	3000	
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	5000	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	5000	
07.1.5	Steamed breads and buns	3000	
07.1.6	Mixes for bread and ordinary bakery wares	5000	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	5000	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	2000	373, XS96 & XS97

08.3.2	Heat-treated processed comminuted meat, poultry and game products	2000	XS88, XS89 & XS98
10.2.1	Liquid egg products	500	
10.2.2	Frozen egg products	500	
10.2.3	Dried and/or heat coagulated egg products	5000	
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	2500	427
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	2500	XS306R
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	2000	
13.4	Dietetic formulae for slimming purposes and weight reduction	2000	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	8000	430
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000	432

STEARYL CITRATE

INS Name of additive

484 Stearyl citrate

Food category No.	Food category	ML (mg/kg)	Remark
02.1.2	Vegetable oils and fats	GMP	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100	15
05.3	Chewing gum	15000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500	

SORBITAN ESTERS OF FATTY ACIDS

INS Name of additive

491 Sorbitan monostearate
492 Sorbitan tristearate
493 Sorbitan monolaurate
494 Sorbitan monooleate
495 Sorbitan monopalmitate

Food category No.	Food category	ML (mg/	Remark
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		kg)	
01.1.4	Flavoured fluid milk drinks	5000	
01.3.2	Beverage whiteners	4000	XS250 & XS252
01.4.4	Cream analogues	5000	349
01.5.2	Milk and cream powder analogues	4000	XS251
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	5000	XS243
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000	359
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	5000	363
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10000	
03.0	Edible ices, including sherbet and sorbet	1000	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	5000	XS240 & XS314R
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000	
04.1.2.11	Fruit fillings for pastries	5000	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000	76
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	2000	97, 123 & XS141
05.1.3	Cocoa-based spreads, including fillings	10000	XS86
05.1.4	Cocoa and chocolate products	10000	101
05.1.5	Imitation chocolate, chocolate substitute products	10000	
05.2.1	Hard candy	10000	
05.2.2	Soft candy	10000	XS309R
05.2.3	Nougats and marzipans	10000	
05.3	Chewing gum	5000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	10000	
06.4.2	Dried pastas and noodles and like products	5000	11 & 211
06.4.3	Pre-cooked pastas and noodles and like products	5000	11 & 194
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	5000	
07.1.1	Breads and rolls	3000	

07.1.2	Crackers, excluding sweet crackers	10000	11
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	10000	11
07.1.4	Bread-type products, including bread stuffing and bread crumbs	10000	11
07.1.5	Steamed breads and buns	10000	11
07.1.6	Mixes for bread and ordinary bakery wares	10000	11
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000	
10.4	Egg-based desserts (e.g. custard)	5000	
12.5.2	Mixed for soups and broths	250	127, XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	5000	
12.6.3	Mixes for sauces and gravies	50	127
12.8	Yeast and like products	15000	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000	
13.4	Dietetic formulae for slimming purposes and weight reduction	1000	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	5000	
13.6	Food supplements	10000	364
14.1.4.1	Carbonated water-based flavoured drinks	500	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	500	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	500	127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500	429
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300	

SODIUM CARBONATE

INS Name of additive

500(i) Sodium carbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	

01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.2.1	Butter	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.2.2	Starches	GMP	
06.4.1	Fresh pastas and noodles and like products	10000	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72 & 316
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
13.2	Complementary foods for infants and young children	GMP	240, 243, 295, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM HYDROGEN CARBONATE

INS	Name of additive
500(ii)	Sodium hydrogen carbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.4.1	Pasteurized cream (plain)	GMP	

01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.2.1	Butter	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72 & 316
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
13.2	Complementary foods for infants and young children	GMP	240, 319 & 320
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

SODIUM SESQUICARBONATE

INS	Name of additive
500(iii)	Sodium sesquicarbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41

POTASSIUM CARBONATE

INS	Name of additive
501(i)	Potassium carbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	

01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.1	Fresh pastas and noodles and like products	11000	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	230, XS167, XS189, XS222, XS236, XS244, XS311
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

POTASSIUM HYDROGEN CARBONATE

INS	Name of additive		
501(ii)	Potassium hydrogen carbonate		

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72

13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
13.2	Complementary foods for infants and young children	GMP	

AMMONIUM CARBONATE

INS	Name of additive
503(i)	Ammonium carbonate

Food category No.	Food category	ML (mg/kg)	Remark
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
13.2	Complementary foods for infants and young children	GMP	239 & 248

AMMONIUM HYDROGEN CARBONATE

INS	Name of additive
503(ii)	Ammonium hydrogen carbonate

Food category No.	Food category	ML (mg/kg)	Remark
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
13.2	Complementary foods for infants and young children	GMP	239 & 248

MAGNESIUM CARBONATE

INS	Name of additive
504(i)	Magnesium carbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	5000	36
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16

09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
11.1.2	Powdered sugar, powdered dextrose	15000	56
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.1	Salt	GMP	
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

MAGNESIUM HYDROXIDE CARBONATE

INS	Name of additive
504(ii)	Magnesium hydroxide carbonate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

HYDROCHLORIC ACID**INS Name of additive**

507 Hydrochloric acid

Food category No.	Food category	ML (mg/ kg)	Remark
13.2	Complementary foods for infants and young children	GMP	239

POTASSIUM CHLORIDE**INS Name of additive**

508 Potassium chloride

Food category No.	Food category	ML (mg/ kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222,

XS236,
XS244,
XS311

12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CALCIUM CHLORIDE

INS Name of additive

509 Calcium chloride

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29, 323 & 324
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	58
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot	GMP	160

cereal and grain beverages, excluding cocoa

MAGNESIUM CHLORIDE

INS **Name of additive**

511 Magnesium chloride

Food category No.	Food category	ML (mg/ kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

STANNOUS CHLORIDE

INS	Name of additive
512	Stannous chloride

Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.4	Canned or bottled (pasteurized) fruit	20	43, 141
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	25	43
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	20	43

CALCIUM SULFATE

INS	Name of additive
516	Calcium sulfate

Food category No.	Food category	ML (mg/kg)	Remark
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	29, 323 & 324
06.4.2	Dried pastas and noodles and like products	GMP	256
10.2.1	Liquid egg products	GMP	

MAGNESIUM SULFATE

INS	Name of additive
518	Magnesium sulfate

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

ALUMINIUM AMMONIUM SULFATE

INS	Name of additive
523	Aluminium ammonium sulfate

Food category No.	Food category	ML (mg/kg)	Remark
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04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	520	6, 245, 296, XS66
06.4.1	Fresh pastas and noodles and like products	300	6 & 247
07.1.2	Crackers, excluding sweet crackers	100	6 & 246
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	100	6, 244 & 246
07.1.5	Steamed breads and buns	40	6, 246 & 248
07.1.6	Mixes for bread and ordinary bakery wares	40	6, 246 & 249
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	200	6 & 250

SODIUM HYDROXIDE

INS Name of additive

524 Sodium hydroxide

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.2.1	Butter	GMP	
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72 & 316
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
13.2	Complementary foods for infants and young children	GMP	239, 319 & 320

POTASSIUM HYDROXIDE

INS Name of additive

525 Potassium hydroxide

Food category No.	Food category	ML (mg/kg)	Remark
01.1.2	Other fluid milk (plain)	GMP	410
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72

13.2	Complementary foods for infants and young children	GMP	239
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CALCIUM HYDROXIDE

INS	Name of additive
526	Calcium hydroxide

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP	
02.2.1	Butter	GMP	
13.1.1	Infant formulae	2000	55 & 72
13.1.2	Follow-up formulae	GMP	72
13.1.3	Formulae for special medical purposes for infants	2000	55 & 72
13.2	Complementary foods for infants and young children	GMP	239

AMMONIUM HYDROXIDE

INS	Name of additive
527	Ammonium hydroxide

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	

MAGNESIUM HYDROXIDE

INS	Name of additive
528	Magnesium hydroxide

Food category No.	Food category	ML (mg/kg)	Remark
01.1.3	Fluid buttermilk (plain)	GMP	261
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products,	GMP	XS167,

	including mollusks, crustaceans, and echinoderms		XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

CALCIUM OXIDE

INS	Name of additive
529	Calcium oxide

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	

MAGNESIUM OXIDE

INS	Name of additive
530	Magnesium oxide

Food category No.	Food category	ML (mg/kg)	Remark
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
12.1.1	Salt	GMP	

FERROCYANIDES

INS	Name of additive
535	Sodium ferrocyanide
536	Potassium ferrocyanide
538	Calcium ferrocyanide

Food category No.	Food category	ML (mg/kg)	Remark
12.1.1	Salt	14	24 & 107
12.1.2	Salt Substitutes	20	24
12.2.2	Seasonings and condiments	20	24

SODIUM ALUMINIUM PHOSPHATES

INS	Name of additive
541(i)	Sodium aluminium phosphate, acidic
541(ii)	Sodium aluminium phosphate, basic

Food category No.	Food category	ML (mg/kg)	Remark
01.6.4	Processed cheese	1600	6 & 251
06.2.1	Flours	1600	6 & 252
06.6	Batters (e.g. for breading or batters for fish or poultry)	1000	6
07.1.2	Crackers, excluding sweet crackers	100	6 & 246
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	100	6, 244 & 246
07.1.5	Steamed breads and buns	40	6, 246 & 248
07.1.6	Mixes for bread and ordinary bakery wares	40	6, 246 & 249

SILICON DIOXIDE, AMORPHOUS

INS	Name of additive
551	Silicon dioxide, amorphous

Food category No.	Food category	ML (mg/kg)	Remark
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
11.1.2	Powdered sugar, powdered dextrose	15000	56
12.1.1	Salt	GMP	
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	2000	65 & 318
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	321

CALCIUM SILICATE

INS	Name of additive
552	Calcium silicate

Food category No.	Food category	ML (mg/kg)	Remark
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	

11.1.2	Powdered sugar, powdered dextrose	15000	56
12.1.1	Salt	GMP	
12.1.2	Salt Substitutes	GMP	

MAGNESIUM SILICATE, SYNTHETIC

INS	Name of additive
553(i)	Magnesium silicate, synthetic

Food category No.	Food category	ML (mg/kg)	Remark
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
11.1.2	Powdered sugar, powdered dextrose	15000	56
12.1.1	Salt	GMP	
12.1.2	Salt Substitutes	GMP	

TALC

INS	Name of additive
553(iii)	Talc

Food category No.	Food category	ML (mg/kg)	Remark
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
12.1.2	Salt Substitutes	GMP	

SODIUM ALUMINOSILICATE

INS	Name of additive
554	Sodium aluminium silicate

Food category No.	Food category	ML (mg/kg)	Remark
01.3.2	Beverage whiteners	570	6 & 260
01.5.1	Milk powder and cream powder (plain)	265	6 & 259
01.5.2	Milk and cream powder analogues	570	6 & 259
01.8.2	Dried whey and whey products, excluding whey cheeses	1140	6
05.3	Chewing gum	100	6 & 174
12.1.1	Salt	1000	6 & 254
12.2.2	Seasonings and condiments	1000	6 & 255
12.5.2	Mixed for soups and broths	570	6 & XS117

12.6.3	Mixes for sauces and gravies	570	6
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GLUCONO DELTA-LACTONE

INS	Name of additive
575	Glucono delta-lactone

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	
01.6.6	Whey protein cheese	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	
13.2	Complementary foods for infants and young children	GMP	239

SODIUM GLUCONATE

INS	Name of additive
576	Sodium gluconate

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS166, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot	GMP	160

cereal and grain beverages, excluding cocoa

FERROUS GLUCONATE

INS **Name of additive**

579 Ferrous gluconate

Food category No.	Food category	ML (mg/ kg)	Remark
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150	23 & 48

FERROUS LACTATE

INS **Name of additive**

585 Ferrous lactate

Food category No.	Food category	ML (mg/ kg)	Remark
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150	23 & 48

GLUTAMIC ACID, L(+)-

INS **Name of additive**

620 Glutamic acid, L(+)-

Food category No.	Food category	ML (mg/ kg)	Remark
12.1.2	Salt Substitutes	GMP	

MONOSODIUM L-GLUTAMATE

INS **Name of additive**

621 Monosodium L-glutamate

Food category No.	Food category	ML (mg/ kg)	Remark
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	201
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	279

06.4.2	Dried pastas and noodles and like products	GMP	256
08.1	Fresh meat, poultry, and game	GMP	16
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	311
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	312
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	29, 313, XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	201

MONOPOTASSIUM L-GLUTAMATE

INS	Name of additive
622	Monopotassium L-glutamate

Food category No.	Food category	ML (mg/kg)	Remark
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
12.1.2	Salt Substitutes	GMP	

CALCIUM DI-L-GLUTAMATE

INS	Name of additive
623	Calcium di-L-glutamate

Food	Food category	ML	Remark
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category No.		(mg/ kg)
12.1.2	Salt Substitutes	GMP

MONOAMMONIUM L-GLUTAMATE

INS	Name of additive
624	Monoammonium glutamate

Food category No.	Food category	ML (mg/ kg)	Remark
08.1	Fresh meat, poultry, and game	GMP	16
12.1.2	Salt Substitutes	GMP	

MAGNESIUM DI-L-GLUTAMATE

INS	Name of additive
625	Magnesium di-L-glutamate

Food category No.	Food category	ML (mg/ kg)	Remark
12.1.2	Salt Substitutes	GMP	

GUANYLIC ACID, 5'-

INS	Name of additive
626	Guanylic acid, 5'-

Food category No.	Food category	ML (mg/ kg)	Remark
12.1.2	Salt Substitutes	GMP	

DISODIUM 5'-GUANYLATE

INS	Name of additive
627	Disodium 5'-guanylate

Food category No.	Food category	ML (mg/ kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	279
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1	Fresh meat, poultry, and game	GMP	16

09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	309, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	311
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	312
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	29, XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	201

DIPOTASSIUM 5'-GUANYLATE

INS	Name of additive
628	Dipotassium 5'-guanylate

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

CALCIUM 5'-GUANYLATE

INS	Name of additive
629	Calcium 5'-guanylate

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

INOSINIC ACID, 5'-

INS	Name of additive
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630 Inosinic acid, 5'-

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

DISODIUM 5'-INOSINATE

INS	Name of additive
631	Disodium 5'-inosinate

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	279
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1	Fresh meat, poultry, and game	GMP	16
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	309, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	311
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	312
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	29, XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	201

POTASSIUM 5'-INOSINATE

INS	Name of additive
632	Potassium 5'-inosinate

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

CALCIUM 5'-INOSINATE

INS	Name of additive
633	Calcium 5'-inosinate

Food category No.	Food category	ML (mg/kg)	Remark
12.1.2	Salt Substitutes	GMP	

CALCIUM 5'-RIBONUCLEOTIDES

INS	Name of additive
634	Calcium 5'-ribonucleotides

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	279
06.4.2	Dried pastas and noodles and like products	GMP	256
12.1.2	Salt Substitutes	GMP	

DISODIUM 5'-RIBONUCLEOTIDES

INS	Name of additive
635	Disodium 5'-ribonucleotides

Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	279
06.4.2	Dried pastas and noodles and like products	GMP	256

09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	309, XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	311
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	312
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	29, XS167, XS189, XS222, XS236, XS244, XS311
12.1.2	Salt Substitutes	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	201

MALTOL

INS	Name of additive
636	Maltol

Food category No.	Food category	ML (mg/kg)	Remark
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	200	
03.0	Edible ices, including sherbet and sorbet	200	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200	XS309R
05.3	Chewing gum	200	

ETHYL MALTOL

INS	Name of additive
637	Ethyl maltol

Food category No.	Food category	ML (mg/kg)	Remark
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		kg)	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	200	
03.0	Edible ices, including sherbet and sorbet	200	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	XS309R
05.3	Chewing gum	1000	

POLYDIMETHYLSILOXANE

INS	Name of additive
900a	Polydimethylsiloxane

Food category No.	Food category	ML (mg/kg)	Remark
01.5.1	Milk powder and cream powder (plain)	10	
02.1.2	Vegetable oils and fats	10	
02.1.3	Lard, tallow, fish oil, and other animal fats	10	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10	152
04.1.2.3	Fruit in vinegar, oil, or brine	10	
04.1.2.4	Canned or bottled (pasteurized) fruit	10	266
04.1.2.5	Jams, jellies, marmelades	30	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	10	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	110	
04.1.2.10	Fermented fruit products	10	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10	15
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	10	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	10	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	10	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed	50	

	pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5		
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10	
05.1.5	Imitation chocolate, chocolate substitute products	10	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	10	XS309R
05.3	Chewing gum	100	
06.4.3	Pre-cooked pastas and noodles and like products	50	153
06.6	Batters (e.g. for breading or batters for fish or poultry)	10	
12.5	Soups and broths	10	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50	
13.4	Dietetic formulae for slimming purposes and weight reduction	50	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	50	
13.6	Food supplements	50	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	20	
14.2.1	Beer and malt beverages	10	
14.2.2	Cider and perry	10	
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	10	

BEESWAX

INS	Name of additive
901	Beeswax

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	GMP	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79
05.1.4	Cocoa and chocolate products	GMP	3
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3
05.2	Confectionery including hard and soft candy, nougats, etc. other	GMP	3, XS309R

	than food categories 05.1, 05.3 and 05.4		
05.3	Chewing gum	GMP	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3
13.6	Food supplements	GMP	3
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	131
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108
15.0	Ready-to-eat savouries	GMP	3

CANDELILLA WAX

INS	Name of additive
902	Candelilla wax

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	GMP	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79
05.1.4	Cocoa and chocolate products	GMP	3
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3, XS309R
05.3	Chewing gum	GMP	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3
13.6	Food supplements	GMP	3
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	131
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108
15.0	Ready-to-eat savouries	GMP	3

CARNAUBA WAX

INS	Name of additive
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Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	400	
04.1.2	Processed fruit	400	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	400	79
05.1.4	Cocoa and chocolate products	5000	3, XS87
05.1.5	Imitation chocolate, chocolate substitute products	5000	3
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000	3, XS309R
05.3	Chewing gum	1200	3
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	4000	
07.0	Bakery wares	GMP	3
13.6	Food supplements	5000	3
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	131
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200	108
15.0	Ready-to-eat savouries	200	3

SHELLAC, BLEACHED**INS Name of additive**

904 Shellac, bleached

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	GMP	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79
05.1.4	Cocoa and chocolate products	GMP	3
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3 & XS309R
05.3	Chewing gum	GMP	3

05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3
13.6	Food supplements	GMP	3
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108
15.0	Ready-to-eat savouries	GMP	3

MICROCRYSTALLINE WAX

INS	Name of additive
905c(i)	Microcrystalline wax

Food category No.	Food category	ML (mg/kg)	Remark
01.6.2.2	Rind of ripened cheese	30000	
04.1.1.2	Surface-treated fresh fruit	50	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3, XS309R
05.3	Chewing gum	20000	3

MINERAL OIL, HIGH VISCOSITY

INS	Name of additive
905d	Mineral oil, high viscosity

Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.2	Dried fruit	5000	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	2000	3, XS86, XS87, XS105 & XS141
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	2000	3, XS309R
05.3	Chewing gum	20000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	2000	3
06.1	Whole, broken, or flaked grain, including rice	800	98

07.0	Bakery wares	3000	125
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	950	3
08.3.3	Frozen processed comminuted meat, poultry, and game products	950	3

MINERAL OIL, MEDIUM VISCOSITY

INS	Name of additive
905e	Mineral oil, medium viscosity

Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.2	Dried fruit	5000	
05.0	Confectionery	2000	3, XS86, XS87, XS105, XS309R, XS141
07.1.1	Breads and rolls	3000	36 & 126

HYDROGENATED POLY-1-DECENES

INS	Name of additive
907	Hydrogenated poly-1-decenes

Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.2	Dried fruit	2000	
05.2.2	Soft candy	2000	XS309R

CHLORINE

INS	Name of additive
925	Chlorine

Food category No.	Food category	ML (mg/kg)	Remark
06.2.1	Flours	2500	87

AZODICARBONAMIDE

INS	Name of additive
927a	Azodicarbonamide

Food category No.	Food category	ML (mg/kg)	Remark
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		kg)
06.2.1	Flours	45

BENZOYL PEROXIDE

INS Name of additive

928 Benzoyl peroxide

Food category No.	Food category	ML (mg/ kg)	Remark
01.8.1	Liquid whey and whey products, excluding whey cheeses	100	74
01.8.2	Dried whey and whey products, excluding whey cheeses	100	147
06.2.1	Flours	75	

NITROGEN

INS Name of additive

941 Nitrogen

Food category No.	Food category	ML (mg/ kg)	Remark
01.1.1	Fluid milk (plain)	GMP	59
01.1.2	Other fluid milk (plain)	GMP	59
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	59
01.2.2	Renneted milk (plain)	GMP	59
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	59 & 278
04.1.1.3	Peeled or cut fresh fruit	GMP	59
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	59, 382, XS167, XS189, XS222, XS236, XS244, XS311
13.1.1	Infant formulae	GMP	59
13.1.3	Formulae for special medical purposes for infants	GMP	59
13.2	Complementary foods for infants and young children	GMP	59
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	59 & 160

NITROUS OXIDE

INS Name of additive

942 Nitrous oxide

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	59
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	59 & 278
04.1.1.3	Peeled or cut fresh fruit	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	390, XS312, XS315
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	308, 392, XS36, XS92, XS95, XS165, XS190, XS191, XS312, XS315
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	

ACESULFAME POTASSIUM**INS Name of additive**

950 Acesulfame potassium

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	350	188
01.3.2	Beverage whiteners	2000	188
01.4.4	Cream analogues	1000	188
01.5.2	Milk and cream powder analogues	1000	188
01.6.5	Cheese analogues	350	188
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	350	188
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	188
02.4	Fat-based desserts excluding dairy-based dessert products of food	350	188

	category 01.7		
03.0	Edible ices, including sherbet and sorbet	800	188
04.1.2.1	Frozen fruit	500	188
04.1.2.2	Dried fruit	500	188
04.1.2.3	Fruit in vinegar, oil, or brine	200	188
04.1.2.4	Canned or bottled (pasteurized) fruit	350	188 & XS319
04.1.2.5	Jams, jellies, marmelades	1000	188
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1000	188
04.1.2.7	Candied fruit	500	188
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350	188
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350	188
04.1.2.10	Fermented fruit products	350	188
04.1.2.11	Fruit fillings for pastries	350	188
04.1.2.12	Cooked fruit	500	188
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	200	144 & 188
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	350	188
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	188
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	350	188
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000	188
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	350	97, 188 & XS141
05.1.2	Cocoa mixes (syrops)	350	97 & 188
05.1.3	Cocoa-based spreads, including fillings	1000	188 & XS86

05.1.4	Cocoa and chocolate products	500	188
05.1.5	Imitation chocolate, chocolate substitute products	500	188
05.2.1	Hard candy	500	156 & 188
05.2.2	Soft candy	1000	157, 188 & XS309R
05.2.3	Nougats and marzipans	1000	188
05.3	Chewing gum	5000	188
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	188
06.3	Breakfast cereals, including rolled oats	1200	188
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	350	188
07.1	Bread and ordinary bakery wares	1000	188
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000	188
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	200	144, 188, XS36, XS92, XS95, XS165, XS166, XS167, XS189, XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200	144, 188 & XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	200	144, 188, XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	350	188
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	1000	159 & 188

11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	188
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	2000	188
12.3	Vinegars	2000	188
12.4	Mustards	350	188
12.5	Soups and broths	110	188 & XS117
12.6	Sauces and like products	1000	188
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	350	188
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	500	188
13.4	Dietetic formulae for slimming purposes and weight reduction	450	188
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	450	188
13.6	Food supplements	2000	188
14.1.3.1	Fruit nectar	350	188
14.1.3.2	Vegetable nectar	350	188
14.1.3.3	Concentrates for fruit nectar	350	127 & 188
14.1.3.4	Concentrates for vegetable nectar	350	127 & 188
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	600	188
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	600	160 & 188
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	350	188
15.0	Ready-to-eat savouries	350	188

ASPARTAME

INS Name of additive

951 Aspartame

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	600	191, 405
01.3.2	Beverage whiteners	6000	191

01.4.4	Cream analogues	1000	191
01.5.2	Milk and cream powder analogues	2000	191
01.6.1	Unripened cheese	1000	191
01.6.5	Cheese analogues	1000	191
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	1000	191
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	1000	191
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000	191
03.0	Edible ices, including sherbet and sorbet	1000	191
04.1.2.1	Frozen fruit	2000	191
04.1.2.2	Dried fruit	2000	191
04.1.2.3	Fruit in vinegar, oil, or brine	300	144 & 191
04.1.2.4	Canned or bottled (pasteurized) fruit	1000	191 & XS319
04.1.2.5	Jams, jellies, marmelades	1000	191
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	1000	191
04.1.2.7	Candied fruit	2000	191
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000	191
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000	191
04.1.2.10	Fermented fruit products	1000	191
04.1.2.11	Fruit fillings for pastries	1000	191
04.1.2.12	Cooked fruit	1000	191
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000	191
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000	191
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300	144 & 191
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000	191

04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	1000	191
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	1000	191
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2500	191
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000	191
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	3000	97, 191 & XS141
05.1.2	Cocoa mixes (syrops)	1000	191
05.1.3	Cocoa-based spreads, including fillings	3000	191, XS86
05.1.4	Cocoa and chocolate products	3000	37, 191
05.1.5	Imitation chocolate, chocolate substitute products	3000	191
05.2.1	Hard candy	3000	148
05.2.2	Soft candy	3000	148, XS309R
05.2.3	Nougats and marzipans	3000	191
05.3	Chewing gum	10000	191
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1000	191
06.3	Breakfast cereals, including rolled oats	1000	191
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	1000	191
07.1	Bread and ordinary bakery wares	4000	191
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1700	165, 191
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	300	144, 191, XS36, XS92, XS95, XS165, XS166, XS167, XS189

			XS190, XS191, XS222, XS236, XS244, XS292, XS311, XS312, XS315
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	300	144, 191 & XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	300	144, 191, XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	1000	191
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	3000	159, 191
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	191
12.2.2	Seasonings and condiments	2000	191
12.3	Vinegars	3000	191
12.4	Mustards	350	191
12.5	Soups and broths	1200	188, XS117
12.6	Sauces and like products	350	191
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	350	166
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000	191
13.4	Dietetic formulae for slimming purposes and weight reduction	800	191
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	1000	191
13.6	Food supplements	5500	191
14.1.3.1	Fruit nectar	600	191
14.1.3.2	Vegetable nectar	600	191
14.1.3.3	Concentrates for fruit nectar	600	127 & 191
14.1.3.4	Concentrates for vegetable nectar	600	127 & 191

14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	600	191
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	600	160
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	600	191
15.0	Ready-to-eat savouries	500	191

CYCLAMATES

INS	Name of additive
952(i)	Cyclamic acid
952(ii)	Calcium cyclamate
952(iv)	Sodium cyclamate

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	250	17
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	250	17
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	250	17
03.0	Edible ices, including sherbet and sorbet	250	17
04.1.2.4	Canned or bottled (pasteurized) fruit	1000	17 & XS319
04.1.2.5	Jams, jellies, marmelades	1000	17
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	2000	17
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	250	17
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	250	17
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	250	17
05.1.2	Cocoa mixes (syrops)	250	17, 127
05.1.3	Cocoa-based spreads, including fillings	500	17 & XS86
05.1.4	Cocoa and chocolate products	500	17
05.1.5	Imitation chocolate, chocolate substitute products	500	17
05.2	Confectionery including hard and soft candy, nougats, etc. other	500	17, 156,

	than food categories 05.1, 05.3 and 05.4		XS309R
05.3	Chewing gum	3000	17
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	17
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	250	17
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1600	17 & 165
10.4	Egg-based desserts (e.g. custard)	250	17
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	500	17 & 159
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	17
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	500	17
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	500	17
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	400	17
13.4	Dietetic formulae for slimming purposes and weight reduction	400	17
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	400	17
13.6	Food supplements	1250	17
14.1.3.1	Fruit nectar	400	17 & 122
14.1.3.2	Vegetable nectar	400	17
14.1.3.3	Concentrates for fruit nectar	400	17, 122 & 127
14.1.3.4	Concentrates for vegetable nectar	400	17, 127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	350	17 & 127
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	250	17

SACCHARINS

INS	Name of additive
954(i)	Saccharin
954(ii)	Calcium saccharin
954(iii)	Potassium saccharin
954(iv)	Sodium saccharin

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	80	406
01.6.5	Cheese analogues	100	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100	
03.0	Edible ices, including sherbet and sorbet	100	
04.1.2.3	Fruit in vinegar, oil, or brine	160	144
04.1.2.4	Canned or bottled (pasteurized) fruit	200	XS319
04.1.2.5	Jams, jellies, marmelades	200	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	200	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	200	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100	
04.1.2.10	Fermented fruit products	160	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	160	144
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	160	144
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	160	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	200	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products,	200	

	excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3		
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	160	144
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	100	97 & XS141
05.1.2	Cocoa mixes (syrops)	80	
05.1.3	Cocoa-based spreads, including fillings	200	XS86
05.1.4	Cocoa and chocolate products	500	
05.1.5	Imitation chocolate, chocolate substitute products	500	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500	163 & XS309R
05.3	Chewing gum	2500	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	500	
06.3	Breakfast cereals, including rolled oats	100	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	100	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	170	165
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	500	XS96 & XS97
08.3.2	Heat-treated processed comminuted meat, poultry and game products	500	XS88, XS89 & XS98
09.2.4.1	Cooked fish and fish products	500	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	160	144
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	160	144
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	160	144
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	200	144, XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	100	144

11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	159
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	
12.2.2	Seasonings and condiments	1500	
12.3	Vinegars	300	
12.4	Mustards	320	
12.5	Soups and broths	110	XS117
12.6	Sauces and like products	160	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200	166
12.9.1	Fermented soybean paste (e.g., miso)	200	
12.9.2.1	Fermented soybean sauce	500	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	200	
13.4	Dietetic formulae for slimming purposes and weight reduction	300	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	200	
13.6	Food supplements	1200	
14.1.3.1	Fruit nectar	80	
14.1.3.2	Vegetable nectar	80	
14.1.3.3	Concentrates for fruit nectar	80	127
14.1.4.1	Carbonated water-based flavoured drinks	300	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	300	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	300	127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200	160
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	80	
15.0	Ready-to-eat savouries	100	

SUCRALOSE (TRICHLOROGALACTOSUCROSE)

INS Name of additive

955 Sucralose (Trichlorogalactosucrose)

Food category No.	Food category	ML (mg/	Remark
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		kg)	
01.1.4	Flavoured fluid milk drinks	300	404
01.3.2	Beverage whiteners	580	
01.4.4	Cream analogues	580	
01.6.5	Cheese analogues	500	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	400	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	400	
03.0	Edible ices, including sherbet and sorbet	320	
04.1.2.1	Frozen fruit	400	
04.1.2.2	Dried fruit	1500	
04.1.2.3	Fruit in vinegar, oil, or brine	180	144
04.1.2.4	Canned or bottled (pasteurized) fruit	400	XS319
04.1.2.5	Jams, jellies, marmelades	400	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	400	
04.1.2.7	Candied fruit	800	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	400	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	400	
04.1.2.10	Fermented fruit products	150	
04.1.2.11	Fruit fillings for pastries	400	
04.1.2.12	Cooked fruit	150	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	150	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	580	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	400	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	580	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed	400	169

	purees and spreads (e.g. peanut butter)		
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	400	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	580	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	150	144
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	580	97 & XS141
05.1.2	Cocoa mixes (syrops)	400	97
05.1.3	Cocoa-based spreads, including fillings	400	169 & XS86
05.1.4	Cocoa and chocolate products	800	XS87
05.1.5	Imitation chocolate, chocolate substitute products	800	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1800	164 & XS309R
05.3	Chewing gum	5000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1000	
06.3	Breakfast cereals, including rolled oats	1000	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	400	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	200	72
06.8.1	Soybean-based beverages	400	
07.1	Bread and ordinary bakery wares	650	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	700	165
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	120	144, XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	120	144, XS3, XS37, XS70, XS90, XS94 & XS119

10.4	Egg-based desserts (e.g. custard)	400	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	1500	159
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	
12.2.1	Herbs and spices	400	
12.2.2	Seasonings and condiments	700	
12.3	Vinegars	400	
12.4	Mustards	140	
12.5	Soups and broths	600	XS117
12.6	Sauces and like products	450	127
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1250	169
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	400	
13.4	Dietetic formulae for slimming purposes and weight reduction	320	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	400	
13.6	Food supplements	2400	
14.1.3.1	Fruit nectar	300	
14.1.3.2	Vegetable nectar	300	
14.1.3.3	Concentrates for fruit nectar	300	127
14.1.3.4	Concentrates for vegetable nectar	300	127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300	127
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	300	160
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	700	
15.0	Ready-to-eat savouries	1000	

ALITAME

INS	Name of additive
956	Alitame

Food category No.	Food category	ML (mg/kg)	Remark
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01.1.4	Flavoured fluid milk drinks	100	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	
03.0	Edible ices, including sherbet and sorbet	100	
04.1.2.5	Jams, jellies, marmelades	100	
05.1.2	Cocoa mixes (syrops)	300	
05.1.3	Cocoa-based spreads, including fillings	300	XS86
05.1.4	Cocoa and chocolate products	300	XS87
05.1.5	Imitation chocolate, chocolate substitute products	300	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300	XS309R
05.3	Chewing gum	300	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	300	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	200	159
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	
12.5	Soups and broths	40	XS117
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	40	

STEVIOL GLYCOSIDES

INS Name of additive

960a	Steviol glycosides from <i>Stevia rebaudiana</i> Bertoni (Steviol glycosides from <i>Stevia</i>)
960b(i)	Rebaudioside A from multiple gene donors expressed in <i>Yarrowia lipolytica</i>

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	200	26 & XS243
01.5.2	Milk and cream powder analogues	330	26 & 201
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	330	26
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	330	26

03.0	Edible ices, including sherbet and sorbet	270	26
04.1.2.3	Fruit in vinegar, oil, or brine	100	26
04.1.2.4	Canned or bottled (pasteurized) fruit	330	26, XS319
04.1.2.5	Jams, jellies, marmelades	360	26
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	330	26
04.1.2.7	Candied fruit	40	26
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	330	26
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350	26
04.1.2.10	Fermented fruit products	115	26
04.1.2.11	Fruit fillings for pastries	330	26
04.1.2.12	Cooked fruit	40	26
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	40	26
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	330	26
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	70	26
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	330	26
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	165	26
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200	26
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	40	26
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	700	26, 199 & XS309R
05.3	Chewing gum	3500	26

06.3	Breakfast cereals, including rolled oats	350	26
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	165	26
06.8.1	Soybean-based beverages	200	26
08.3.2	Heat-treated processed comminuted meat, poultry and game products	100	26, 202, XS88, XS89 & XS98
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	100	26 & 144
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	165	26
09.3.3	Salmon substitutes, caviar, and other fish roe products	100	26, XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	100	26, XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	330	26
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	26
12.2.2	Seasonings and condiments	30	26
12.4	Mustards	130	26
12.5	Soups and broths	50	26 & XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	350	26
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	350	26
12.6.3	Mixes for sauces and gravies	350	26 & 127
12.6.4	Clear sauces (e.g. fish sauce)	350	26, XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	115	26
12.9.2.1	Fermented soybean sauce	30	26
12.9.2.2	Non-fermented soybean sauce	165	26
12.9.2.3	Other soybean sauces	165	26
13.3	Dietetic foods intended for special medical purposes (excluding	350	26

	products of food category 13.1)		
13.4	Dietetic formulae for slimming purposes and weight reduction	270	26
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	660	26, 198 & 294
13.6	Food supplements	2500	26 & 203
14.1.3	Fruit and vegetable nectars	200	26
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200	26
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200	26 & 160
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200	26
15.0	Ready-to-eat savouries	170	26

NEOTAME

INS Name of additive

961 Neotame

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	20	
01.3.2	Beverage whiteners	65	
01.4.4	Cream analogues	33	
01.5.2	Milk and cream powder analogues	65	
01.6.5	Cheese analogues	33	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	100	
02.3	Fat emulsions mainly of oil-in-water type, including mixed and/or flavoured products based on fat emulsions	10	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100	
03.0	Edible ices, including sherbet and sorbet	100	
04.1.2.1	Frozen fruit	100	
04.1.2.2	Dried fruit	100	
04.1.2.3	Fruit in vinegar, oil, or brine	100	
04.1.2.4	Canned or bottled (pasteurized) fruit	33	XS319
04.1.2.5	Jams, jellies, marmelades	70	
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	70	

04.1.2.7	Candied fruit	65	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100	
04.1.2.10	Fermented fruit products	65	
04.1.2.11	Fruit fillings for pastries	100	
04.1.2.12	Cooked fruit	65	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	33	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	33	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	10	144
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	33	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	33	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	33	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	33	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	33	
05.1.2	Cocoa mixes (syrops)	33	97
05.1.3	Cocoa-based spreads, including fillings	100	XS86
05.1.4	Cocoa and chocolate products	80	XS87
05.1.5	Imitation chocolate, chocolate substitute products	100	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	330	158, XS309R

05.3	Chewing gum	1000	
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	100	
06.3	Breakfast cereals, including rolled oats	160	
06.5	Cereal- and starch-based desserts (e.g. rice pudding, tapioca pudding)	33	
07.1	Bread and ordinary bakery wares	70	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	80	165
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	10	XS291
09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	10	XS3, XS37, XS70, XS90, XS94 & XS119
10.4	Egg-based desserts (e.g. custard)	100	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	70	159
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	
12.2	Herbs, spices, seasonings and condiments (e.g. seasoning for instant noodles)	32	
12.3	Vinegars	12	
12.4	Mustards	12	
12.5	Soups and broths	20	XS117
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	65	
12.6.2	Non-emulsified sauces (e.g. ketchup, cheese sauce, cream sauce, brown gravy)	70	
12.6.3	Mixes for sauces and gravies	12	
12.6.4	Clear sauces (e.g. fish sauce)	12	XS302
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	33	166
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	33	
13.4	Dietetic formulae for slimming purposes and weight reduction	33	
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	65	

13.6	Food supplements	90	
14.1.3.2	Vegetable nectar	65	
14.1.3.4	Concentrates for vegetable nectar	65	127
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	33	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	50	160
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	33	
15.0	Ready-to-eat savouries	32	

ASPARTAME-ACESULFAME SALT

INS	Name of additive
962	Aspartame-acesulfame salt

Food category No.	Food category	ML (mg/kg)	Remark
01.1.4	Flavoured fluid milk drinks	350	113
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yogurt)	350	113
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	350	113
04.1.2.4	Canned or bottled (pasteurized) fruit	350	113 & XS319
04.1.2.5	Jams, jellies, marmelades	1000	119
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350	113
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350	113
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	200	113
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04. 2. 2. 5	350	113
05.1.5	Imitation chocolate, chocolate substitute products	500	113
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000	77 & 113
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200	113 & XS291

09.4	Fully preserved, including canned or fermented, fish and fish products, including mollusks, crustaceans, and echinoderms	200	113, XS3, XS37, XS70, XS90, XS94, XS119
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	500	113
13.4	Dietetic formulae for slimming purposes and weight reduction	450	113
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	450	113
13.6	Food supplements	2000	113
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	350	113

QUILLAIA EXTRACTS

INS	Name of additive
999(i)	Quillaia extract type I
999(ii)	Quillaia extract type II

Food category No.	Food category	ML (mg/kg)	Remark
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50	132 & 293

ALPHA AMYLASE FROM ASPERGILLUS ORYZAE VAR.

INS	Name of additive
1100(i)	alpha-Amylase from Aspergillus orysee var.

Food category No.	Food category	ML (mg/kg)	Remark
06.2	Flours and starches (including soybean powder)	GMP	

ALPHA-AMYLASE FROM BACILLUS SUBTILIS

INS	Name of additive
1100(iii)	alpha-Amylase from Bacillus subtilis

Food category No.	Food category	ML (mg/kg)	Remark
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06.2	Flours and starches (including soybean powder)	GMP
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CARBOHYDRASE FROM BACILLUS LICHENIFORMIS

INS	Name of additive
1100(vi)	Carbohydrase from Bacillus licheniformis

Food category No.	Food category	ML (mg/kg)	Remark
06.2	Flours and starches (including soybean powder)	GMP	

PROTEASE FROM ASPERGILLUS ORYZAE VAR

INS	Name of additive
1101(i)	Protease from Aspergillus orizae var.

Food category No.	Food category	ML (mg/kg)	Remark
06.2.1	Flours	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

BROMELAIN

INS	Name of additive
1101(iii)	Bromelain

Food category No.	Food category	ML (mg/kg)	Remark
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326

LYSOZYME

INS	Name of additive
1105	Lysozyme

Food category No.	Food category	ML (mg/kg)	Remark
01.6.2	Ripened cheese	GMP	
14.2.2	Cider and perry	500	
14.2.3	Grape wines	500	

POLYDEXTROSES

INS	Name of additive
1200	Polydextroses

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

POLYVINYLPIRROLIDONE

INS	Name of additive
1201	Polyvinylpyrrolidone

Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	GMP	
05.3	Chewing gum	10000	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	3000	
12.3	Vinegars	40	
13.6	Food supplements	GMP	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	500	
14.2.1	Beer and malt beverages	10	36

14.2.2	Cider and perry	2	36
POLYVINYL ALCOHOL			
INS	Name of additive		
1203	Polyvinyl alcohol		
Food category No.	Food category	ML (mg/kg)	Remark
13.6	Food supplements	45000	
PULLULAN			
INS	Name of additive		
1204	Pullulan		
Food category No.	Food category	ML (mg/kg)	Remark
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.2.1	Flours	GMP	25
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
10.2.2	Frozen egg products	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot	GMP	160

cereal and grain beverages, excluding cocoa

POLYVINYL ALCOHOL (PVA) - POLYETHYLENE GLYCOL (PEG) GRAFT COPOLYMER

INS	Name of additive
1209	Polyvinyl alcohol (PVA) - Polyethylene glycol (PEG) graft copolymer

Food category No.	Food category	ML (mg/kg)	Remark
13.6	Food supplements	100000	417

DEXTRINS, ROASTED STARCH

INS	Name of additive
1400	Dextrins, roasted starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	3, 53, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS166
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	

09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	90 & 160

ACID-TREATED STARCH

INS Name of additive

1401 Acid-treated starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ALKALINE TREATED STARCH

INS Name of additive

1402 Alkaline treated starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258

14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160
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BLEACHED STARCH

INS Name of additive

1403 Bleached starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

OXIDIZED STARCH

INS Name of additive

1404 Oxidized starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292,

			XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.2	Complementary foods for infants and young children	50000	239 & 269
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

STARCHES, ENZYME TREATED

INS	Name of additive
1405	Starches, enzyme treated

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

MONOSTARCH PHOSPHATE

INS	Name of additive
1410	Monostarch phosphate

Food	Food category	ML	Remark
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category No.		(mg/kg)	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.2	Complementary foods for infants and young children	50000	239 & 269
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

DISTARCH PHOSPHATE

INS	Name of additive
1412	Distarch phosphate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.1.1	Infant formulae	5000	72, 150, 284 & 292
13.1.2	Follow-up formulae	5000	72, 150, 285 & 292
13.1.3	Formulae for special medical purposes for infants	5000	72, 150 &

13.2	Complementary foods for infants and young children	50000	269 & 270
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

PHOSPHATED DISTARCH PHOSPHATE

INS Name of additive

1413 Phosphated distarch phosphate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.1	Fresh pastas and noodles and like products	GMP	211
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.1.1	Infant formulae	5000	72, 150, 284 & 292
13.1.2	Follow-up formulae	5000	72, 150, 285 & 292
13.1.3	Formulae for special medical purposes for infants	5000	72, 150 & 292
13.2	Complementary foods for infants and young children	50000	269 & 270
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ACETYLATED DISTARCH PHOSPHATE

INS Name of additive

1414 Acetylated distarch phosphate

Food category No.	Food category	ML (mg/kg)	Remark
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01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244, XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	5000	72, 150, 284 & 292
13.1.2	Follow-up formulae	5000	72, 150, 285 & 292
13.1.3	Formulae for special medical purposes for infants	5000	72, 150 &

13.2	Complementary foods for infants and young children	50000	269 & 270
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

STARCH ACETATE

INS Name of additive

1420 Starch acetate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
13.2	Complementary foods for infants and young children	50000	239 & 269

ACETYLATED DISTARCH ADIPATE

INS Name of additive

1422 Acetylated distarch adipate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
06.4.2	Dried pastas and noodles and like products	GMP	256
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
13.1.2	Follow-up formulae	5000	72, 150,

			285 & 292
13.2	Complementary foods for infants and young children	50000	269, 270
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

HYDROXYPROPYL STARCH

INS	Name of additive
1440	Hydroxypropyl starch

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
08.1.1	Fresh meat, poultry, and game products in whole pieces or cuts	GMP	16 & 326
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	281
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16
09.2.4.1	Cooked fish and fish products	GMP	241
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	41
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	300, XS167, XS189, XS222, XS236, XS244,

			XS311
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
12.1.2	Salt Substitutes	GMP	
13.1.1	Infant formulae	5000	72, 150, 284 & 292
13.1.3	Formulae for special medical purposes for infants	5000	72, 150 & 292
13.2	Complementary foods for infants and young children	60000	237 & 276
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

HYDROXYPROPYL DISTARCH PHOSPHATE

INS	Name of additive
1442	Hydroxypropyl distarch phosphate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235
01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
01.8.2	Dried whey and whey products, excluding whey cheeses	10000	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	63
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	GMP	258
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

STARCH SODIUM OCTENYL SUCCINATE

INS	Name of additive
1450	Starch sodium octenyl succinate

Food category No.	Food category	ML (mg/kg)	Remark
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234, 235
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234

01.2.2	Renneted milk (plain)	GMP	
01.4.1	Pasteurized cream (plain)	GMP	236
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	
10.2.1	Liquid egg products	GMP	
10.2.2	Frozen egg products	GMP	
13.1.3	Formulae for special medical purposes for infants	20000	376 & 381
13.2	Complementary foods for infants and young children	50000	239 & 269
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160

ACETYLATED OXIDIZED STARCH

INS Name of additive

1451 Acetylated oxidized starch

Food category No.	Food category	ML (mg/kg)	Remark
13.2	Complementary foods for infants and young children	50000	239, 269

CASTOR OIL

INS Name of additive

1503 Castor oil

Food category No.	Food category	ML (mg/kg)	Remark
05.1.4	Cocoa and chocolate products	350	XS87
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500	XS309R
05.3	Chewing gum	2100	
13.6	Food supplements	1000	

TRIETHYL CITRATE

INS Name of additive

1505 Triethyl citrate

Food category No.	Food category	ML (mg/kg)	Remark
10.2.1	Liquid egg products	2500	47
10.2.3	Dried and/or heat coagulated egg products	2500	47

14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200
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PROPYLENE GLYCOL

INS	Name of additive
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1520	Propylene glycol
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Food category No.	Food category	ML (mg/kg)	Remark
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	2000	XS240 & XS314R
05.1.3	Cocoa-based spreads, including fillings	1000	XS86
05.2.1	Hard candy	5300	
05.2.2	Soft candy	4500	XS309R
05.2.3	Nougats and marzipans	1000	
05.3	Chewing gum	20000	
06.4.1	Fresh pastas and noodles and like products	20000	370
06.4.3	Pre-cooked pastas and noodles and like products	10000	194
07.1	Bread and ordinary bakery wares	1500	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1500	
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	1000	426
13.6	Food supplements	2000	417
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300	

POLYETHYLENE GLYCOL

INS	Name of additive
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1521	Polyethylene glycol
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Food category No.	Food category	ML (mg/kg)	Remark
04.1.1.2	Surface-treated fresh fruit	GMP	
05.3	Chewing gum	20000	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	10000	
13.6	Food supplements	70000	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000	

APPENDIX 2B

MAXIMUM USE LEVELS OF FOOD ADDITIVES NOT SPECIFIED IN CODEX STAN 192-1995 (2018)

(Enclosed with the Circular No. 24/2019/TT-BYT dated August 30, 2019)

CURCUMIN

INS	Name of additive
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100(i)	Curcumin
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Food category	ML (mg/kg)	Notes
Edible ices, including sherbet and sorbet	150	
Confectionery including hard and soft candy, nougats and marzipans	300	554, 568
Chewing gum	300	554
Seasonings and condiments	500	
Fine bakery wares	200	557
Flavored drinks (excluding chocolate milk, flavored dairy-based drinks and malt products)	100	556
Snacks - potato, cereal, flour or starch based (excluding extruded or expanded savoury snack products)	100	553
Snacks - potato, cereal, flour or starch based (only extruded or expanded savoury snack products)	200	553

TURMERIC

INS	Name of additive
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100(ii)	Turmeric
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Food category	ML (mg/kg)	Notes
Confectionery including hard and soft candy, nougats and marzipans	GMP	568
Chewing gum	GMP	

TARTRAZINE

INS Name of additive

102 Tartrazine

Food category	ML (mg/kg)	Notes
Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	GMP	
Edible ices, including sherbet and sorbet	GMP	
Cocoa and chocolate products	GMP	
Confectionery including hard and soft candy, nougats and marzipans	300	554, 568
Chewing gum	300	555
Cereal and starch based desserts (e.g. rice pudding, tapioca pudding, etc.)	150	556
Crackers, excluding sweet crackers	200	557
Cakes, cookies and pies (e.g. fruit-filled or custard types)	200	557
Food supplements	GMP	
Non-alcoholic beverages	GMP	
Seasonings and condiments	500	552

AZORUBINE (CARMOISINE)

INS Name of additive

122 Azorubine (Carmoisine)

Food category	ML (mg/kg)	Notes
Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	150	556
Edible ices, including sherbet and sorbet	50	

ERYTHROSINE

INS Name of additive

127 Erythrosine

Food category	ML (mg/kg)	Notes
Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	GMP	
Edible ices, including sherbet and sorbet	GMP	
Jams, jellies, marmelades	GMP	
Sausages	GMP	565

CHLOROPHYLLS AND CHLOROPHYLLINS, COPPER COMPLEXES

INS	Name of additive
141(i)	Chlorophylls, copper complexes
141(ii)	Chlorophyllin copper complexes (potassium and sodium salts)

Food category	ML (mg/kg)	Notes
Breakfast cereals, including rolled oats (excluding extruded and expanded-type breakfast cereals and/ or fruit-flavored breakfast cereals)	GMP	

CARAMEL I - PLAIN CARAMEL

INS	Name of additive
150a	Caramel I (plain caramel)

Food category	ML (mg/kg)	Notes
Instant coffee	GMP	

CARAMEL II - SULFITE CARAMEL

INS	Name of additive
150b	Caramel II (sulfite caramel)

Food category	ML (mg/kg)	Notes
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Water-based flavored drinks, including “sport”, “energy,” or “electrolyte” drinks and particulated drinks	GMP	556
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VEGETABLE CARBON

INS	Name of additive
153	Vegetable carbon

Food category	ML (mg/kg)	Notes
Flavored fermented milks including heat treated products	GMP	556
Edible ices	GMP	553
Confectionery including hard and soft candy, nougats and marzipans	GMP	554, 568
Chewing gum	GMP	555
Noodles	GMP	
Fine bakery wares	GMP	

BROWN HT

INS	Name of additive
155	Brown HT

Food category	ML (mg/kg)	Notes
Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	150	556
Edible ices, including sherbet and sorbet	50	
Imitation chocolate, chocolate substitute products	150	554
Confectionery including hard and soft candy, nougats and marzipans	150	554, 568
Chewing gum	300	555
Sauces and like products (excluding tomato-based products)	500	550

ANNATTO EXTRACT, BIXIN BASED

INS	Name of additive
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160b(i)	Annatto extracts, bixin-based
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Food category	ML (mg/kg)	Notes
Breakfast cereals, including rolled oats	25	
Pre-cooked pastas and noodles and like products	GMP	
Seasonings and condiments	GMP	
Sauces and like products, emulsified dips	GMP	
Chocolate	GMP	

ANNATTO EXTRACT, NORBIXIN - BASED

INS	Name of additive
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160b(ii)	Annatto extracts, norbixin-based
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Food category	ML (mg/kg)	Notes
Breakfast cereals, including rolled oats	25	
Pre-cooked pastas and noodles and like products	GMP	
Seasonings and condiments	GMP	
Sauces and like products, emulsified dips	GMP	
Chocolate	GMP	

PAPRIKA OLEORESIN

INS	Name of additive
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160c(i)	Paprika oleoresin
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Food category	ML (mg/kg)	Notes
Confectionery including hard and soft candy, nougats and marzipans	GMP	554, 568
Chewing gum	GMP	555
Breakfast cereals, including rolled oats	GMP	

Seasonings and condiments	GMP	552
Sauces and like products	GMP	
Noodles	GMP	
Fine bakery wares	GMP	
Sausages, pates, terrines	GMP	
Edible casings for meat (e.g., sausage casings)	GMP	
Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	GMP	553

LUTEIN FROM TAGETES ERECTA

INS	Name of additive
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161b(i)	Lutein from Tagetes erecta
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Food category	ML (mg/kg)	Notes
Flavored fermented milks	150	556
Edible ices	150	
Other confectionery including breath refreshing microsweets (excluding candied fruit and vegetables)	300	554
Candied fruit and vegetables	200	554
Chewing gum	300	555
Fine bakery wares	200	557
Seasonings and condiments (only seasonings, for example curry powder, tandoori)	500	552
Sauces and like products (excluding tomato-based sauces)	500	550
Flavored drinks (excluding chocolate milk and malt products)	100	556
Snacks - potato, cereal, flour or starch based (excluding extruded or expanded savoury snack products)	100	553
Snacks - potato, cereal, flour or starch based (only extruded or expanded savoury snack products)	200	553

GRAPE SKIN EXTRACT

INS	Name of additive
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163(ii)	Grape skin extract
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Food category	ML (mg/kg)	Notes
Unripened cheese	GMP	
Ripened cheese	GMP	
Whey cheese	GMP	
Dairy analogues, including beverage whiteners	GMP	
Dried fruit	GMP	
Mostarda di frutta	GMP	
Fruit and vegetable preparations except marmelades	GMP	558
Fruit-flavored breakfast cereals	200	
Noodles	GMP	
Batters	GMP	
Pre-cooked or processed cereal products	GMP	
Fine bakery wares	GMP	
Seasonings and condiments, for example curry powder, tandoori	GMP	
Protein products, excluding dairy analogues and beverage whiteners	GMP	
Mead	GMP	
Desserts	GMP	567
Grape wines	GMP	

ANTHOCYANINS

INS	Name of additive
163(iii)	Blackcurrant extract
163(iv)	Purple corn color
163(vi)	Black carrot extract
163(vii)	Purple sweet potato color
163(viii)	Red radish color

Food category	ML (mg/kg)	Notes
Flavored fermented milks	GMP	556
Anhydrous milk (excluding products with no added flavor)	GMP	

Flavored cream products	GMP	
Flavored unripened cheese	GMP	
Ripened cheese, only red marbled cheese	GMP	
Rind of ripened cheese	GMP	
Whey cheese	GMP	
Flavored processed cheese	GMP	
Flavored unripened cheese analogues and red marbled products	GMP	
Dairy analogues, including beverage whiteners	GMP	
Edible ices	GMP	553
Dried fruit	GMP	558
Fruit and vegetable in vinegar, oil, or brine	GMP	559
Canned or bottled fruit	GMP	558
Fruit and vegetable preparations except marmelades	GMP	560
Jams, jellies, marmelades	GMP	561
Fruit and vegetable-based spreads	GMP	562
Other confectionery including breath refreshing microsweets	GMP	554
Chewing gum	GMP	555
Decorations, toppings and filling, excluding fruit fillings	GMP	555
Breakfast cereals (excluding extruded and expanded-type breakfast cereals and/ or fruit-flavored breakfast cereals)	GMP	
Fruit-flavored breakfast cereals	200	563
Noodles	GMP	
Batters	GMP	
Pre-cooked or processed cereal products	GMP	
Fine bakery wares	GMP	
Edible casings for meat (excluding edible external coating of pasturmas)	GMP	
Pre-cooked fish and fishery products, including mollusks, crustaceans, and echinoderms (only surimi and similar products, salmon substitutes, fish products and crustacean paste, crustaceans prepared for processing, smoked fish)	GMP	
Fish roe (excluding salted mullet roe)	GMP	
Seasonings and condiments, for example curry powder, tandoori	GMP	552
Mustards	GMP	
Soups and broths	GMP	

Sauces and like products (excluding tomato-based sauces)	GMP	
Salads and sandwich spreads	GMP	
Protein products, excluding dairy analogues and beverage whiteners	GMP	
Dietetic foods intended for special medical purposes, except complementary foods for infants and young children for special medical purposes	GMP	
Complementary foods for weight reduction	GMP	
Foods suitable for people intolerant to gluten	GMP	
Flavored drinks (excluding chocolate milk and malt products)	GMP	556
Cider and perry (excluding cidre bouché)	GMP	
Fruit wine and made wine (excluding wino owocowe markowe)	GMP	
Mead	GMP	
Distilled spirits containing more than 15% alcohol	GMP	
Aromatised wines (only Americano)	GMP	
Aromatised wine-product cocktails	GMP	
Other alcoholic drinks including mixtures of alcoholic drinks with non-alcoholic drinks and drinks with less than 15 % of alcohol	GMP	
Snacks - potato, cereal, flour or starch based	GMP	553
Processed nuts	GMP	
Desserts	GMP	556, 567
Food supplements supplied in a solid form including capsules and tablets and similar forms, excluding chewable forms	GMP	551
Food supplements supplied in a liquid form	GMP	
Food supplements supplied in a syrup-type or chewable form	GMP	551

RED CABBAGE COLOR

INS	Name of additive
163(v)	Red cabbage color

Food category	ML (mg/kg)	Notes
Confectionery including hard and soft candy, nougats and marzipans	GMP	568

Chewing gum	GMP	
Flavored fermented milks	GMP	556
Anhydrous milk (excluding products with no added flavor)	GMP	
Flavored cream products	GMP	
Flavored unripened cheese	GMP	
Ripened cheese, only red marbled cheese	GMP	
Rind of ripened cheese	GMP	
Whey cheese	GMP	
Flavored processed cheese	GMP	
Flavored unripened cheese analogues and red marbled products	GMP	
Dairy analogues, including beverage whiteners	GMP	
Edible ices	GMP	553
Dried fruit	GMP	558
Fruit and vegetable in vinegar, oil, or brine	GMP	559
Canned or bottled fruit	GMP	558
Fruit and vegetable preparations except marmelades	GMP	560
Jams, jellies, marmelades	GMP	561
Fruit and vegetable-based spreads	GMP	562
Other confectionery including breath refreshing microsweets	GMP	554
Chewing gum	GMP	555
Decorations, toppings and filling, excluding fruit fillings	GMP	555
Breakfast cereals (excluding extruded and expanded-type breakfast cereals and/ or fruit-flavored breakfast cereals)	GMP	
Fruit-flavored breakfast cereals	200	563
Noodles	GMP	
Batters	GMP	
Pre-cooked or processed cereal products	GMP	
Fine bakery wares	GMP	
Edible casings for meat (excluding edible external coating of pasturmas)	GMP	
Pre-cooked fish and fishery products, including mollusks, crustaceans, and echinoderms (only surimi and similar products, salmon substitutes, fish products and crustacean paste, crustaceans prepared for processing, smoked fish)	GMP	
Fish roe (excluding salted mullet roe)	GMP	

Seasonings and condiments, for example curry powder, tandoori	GMP	552
Mustards	GMP	
Soups and broths	GMP	
Sauces and like products (excluding tomato-based sauces)	GMP	
Salads and sandwich spreads	GMP	
Protein products, excluding dairy analogues and beverage whiteners	GMP	
Dietetic foods intended for special medical purposes, except complementary foods for infants and young children for special medical purposes	GMP	
Complementary foods for weight reduction	GMP	
Foods suitable for people intolerant to gluten	GMP	
Flavored drinks (excluding chocolate milk and malt products)	GMP	556
Cider and perry (excluding cidre bouché)	GMP	
Fruit wine and made wine (excluding wino owocowe markowe)	GMP	
Mead	GMP	
Distilled spirits containing more than 15% alcohol	GMP	
Aromatised wines (only Americano)	GMP	
Aromatised wine-product cocktails	GMP	
Other alcoholic drinks including mixtures of alcoholic drinks with non-alcoholic drinks and drinks with less than 15 % of alcohol	GMP	
Snacks - potato, cereal, flour or starch based	GMP	553
Processed nuts	GMP	
Desserts	GMP	556, 567
Food supplements based on vitamin and mineral elements (supplied in a solid form including capsules and tablets and similar forms, excluding chewable forms)	GMP	551
Food supplements based on vitamin and mineral elements (supplied in a liquid form)	GMP	
Food supplements based on vitamin and mineral elements (in a syrup-type or chewable form)	GMP	551

GARDENIA YELLOW

INS	Name of additive
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Food category	ML (mg/kg)	Notes
Candied fruit	300	
Cocoa products, chocolate and chocolate products (including chocolate and chocolate products with addition of cocoa butter) and candies	300	
Fresh pasta	1000	
Dry pasta	300	
Pre-cooked pastas and noodles and like products	1000	
Pastries and untreated pastries (e.g. noodles, dumplings, “wontons” and “shuomai”)	1000	
Starch-based products in dried and raw form	300	
Instant rice flour products	1500	
Cereal-based fillings	1500	
Cakes	900	
Cookies	1500	
Wafers	300	
Filling and toppings for cakes	1000	
Vegetable and fruit juice	300	
Vegetable and fruit juice containing pulps and vegetables	300	
Refreshers (except edible ices)	300	
Drinks supplied in a solid form	1500	
Fruit-flavored drinks	300	
Margarine and like products (e.g. blends of margarine and butter)	1500	
Glazed fruits	300	
Fermented vegetables	1500	
Nuts and fried seeds	1500	
Nuts and canned seeds	1500	
Fruit jellies (for fruit jelly powder, maximum level is increased along with the ratio of the blend for processing)	300	
Pre-cooked meat products (pre-cooked poultry products)	1500	
Seasonings and condiments (except salts and products similar to salts)	1500	
Clear sauces (e.g. fish sauce)	GMP	

TANNIC ACID (TANNINS)

INS	Name of additive
181	Tannic acid (Tannins)

	Food category	ML (mg/kg)	Notes
	Grape wines	GMP	

POTASSIUM SORBATE

INS	Name of additive
202	Potassium sorbate

	Food category	ML (mg/kg)	Notes
	Edible ices, including sherbet and sorbet	GMP	

SODIUM BENZOATE

INS	Name of additive
211	Sodium benzoate

	Food category	ML (mg/kg)	Notes
	Soybean sauces	1000	

NISIN

INS	Name of additive
234	Nisin

	Food category	ML (mg/kg)	Notes
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SODIUM NITRIT

INS Name of additive

250	Sodium nitrite
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Food category	ML (mg/kg)	Notes
Sterilized sausages and meatballs	100	565
Heat treated sausages and meatballs (excluding sterilized products)	150	565

SODIUM NITRATE

INS Name of additive

251	Sodium nitrate
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Food category	ML (mg/kg)	Notes
Sausage	200	

SODIUM DEHYDROACETATE

INS Name of additive

266	Sodium dehydroacetate
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Food category	ML (mg/kg)	Notes
Processed cheese	500	
Butter	500	

LACTIC ACID, L-, D- and DL-

INS Name of additive

270	Lactic acid (L-, D- and DL-)
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	Food category	ML (mg/kg)	Notes
	Grape wines	4000	

MALIC ACID, DL-

INS	Name of additive
296	Malic acid, DL-

	Food category	ML (mg/kg)	Notes
	Grape wines	4000	

ASCORBIC ACID, L-

INS	Name of additive
300	Ascorbic acid (L-)

	Food category	ML (mg/kg)	Notes
	Grape wines	250	

TOCOPHEROL, D-ALPHA

INS	Name of additive
307a	Tocopherol, d-alpha

	Food category	ML (mg/kg)	Notes
	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	
	Infant formulae	10	566
	Formulae for special medical purposes for infants	10	566
	Food supplements based on vitamin and mineral elements	GMP	

TOCOPHEROL CONCENTRATE, MIXED

INS Name of additive**307b Tocopherol concentrate (mixed)**

	Food category	ML (mg/kg)	Notes
	Sauces and like products	GMP	
	Infant formulae	10	566
	Formulae for special medical purposes for infants	10	566
	Food supplements based on vitamin and mineral elements	GMP	

ERYTHORBIC ACID (ISOASCORBIC ACID)

INS Name of additive**315 Erythorbic acid (isoascorbic acid)**

	Food category	ML (mg/kg)	Notes
	Grape wines	250	

POTASSIUM LACTATE

INS Name of additive**326 Potassium lactate**

	Food category	ML (mg/kg)	Notes
	Processed fish and fishery products, including mollusks and crustaceans	GMP	

CITRIC ACID

INS Name of additive**330 Citric acid**

	Food category	ML (mg/kg)	Notes
	Grape wines	1000	

DISODIUM MONOHYDROGEN CITRATE

INS	Name of additive
331(ii)	Disodium monohydrogen citrate

	Food category	ML (mg/kg)	Notes
	Flavored instant coffee and coffee substitutes, flavored tea, fruit and herbal infusions	GMP	

TARTARIC ACID, L (+) -

INS	Name of additive
334	Tartaric acid, L(+)-

	Food category	ML (mg/kg)	Notes
	Grape wines	GMP	

PHOSPHORIC ACID

INS	Name of additive
338	Phosphoric acid

	Food category	ML (mg/kg)	Notes
	Jams, jellies, marmelades	GMP	

PHOSPHATES

INS	Name of additive
339(i)	Sodium dihydrogen phosphate
339(ii)	Disodium hydrogen phosphate

339(iii)	Trisodium phosphate
340(i)	Potassium dihydrogen phosphate
340(ii)	Dipotassium hydrogen phosphate
340(iii)	Tripotassium phosphate

	Food category	ML (mg/kg)	Notes
	Follow-up formulae	1000	564, 566

CALCIUM DIHYDROGEN PHOSPHATE

INS	Name of additive
341(i)	Calcium dihydrogen phosphate

	Food category	ML (mg/kg)	Notes
	Powder	2500	564

METATARTARIC ACID

INS	Name of additive
353	Metatartaric acid

	Food category	ML (mg/kg)	Notes
	Grape wines	GMP	

SUCCINIC ACID

INS	Name of additive
363	Succinic acid

	Food category	ML (mg/kg)	Notes
	Soups and broths	GMP	

Sauces and like products	GMP
Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP
Concentrates (liquid or solid) for water-based flavored drinks	GMP

DISODIUM SUCCINAT

INS	Name of additive
364(ii)	Disodium succinat

	Food category	ML (mg/kg)	Notes
	Spices	GMP	

ROSEMARY EXTRACT

INS	Name of additive
392	Rosemary extract

	Food category	ML (mg/kg)	Notes
	Fat spreads, dairy fat spreads and blended spreads	100	
	Sauces and like products	100	

GUM ARABIC (ACACIA GUM)

INS	Name of additive
414	Gum arabic

	Food category	ML (mg/kg)	Notes
	Grape wines	300	

POLYOXYETHYLEN (20) SORBITAN MONOSTEARATE

INS	Name of additive
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435	Polyoxyethylen (20) sorbitan monostearate
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	Food category	ML (mg/kg)	Notes
	Jams, jellies, marmelades	GMP	

DISODIUM DIPHOSPHATE

INS	Name of additive
450(i)	Disodium diphosphate

	Food category	ML (mg/kg)	Notes
	Powder	2500	

YEAST MANNOPROTEINS

INS	Name of additive
455	Yeast mannoproteins

	Food category	ML (mg/kg)	Notes
	Grape wines	GMP	

SODIUM CACBOXYMETHYL CELLULOSE

INS	Name of additive
466	Sodium cacboxymethyl cellulose

	Food category	ML (mg/kg)	Notes
	Starches	GMP	
	Grape wines	100	

SODIUM CARBONXYMETHYL CELLULOSE, ENZYMATICALLY HYDROLYZED

INS	Name of additive
469	Sodium carbonxymethyl cellulose, enzymatically hydrolyzed

Food category	ML (mg/kg)	Notes
Flavored instant coffee and coffee substitutes, flavored tea, fruit and herbal infusions	GMP	

MONO- AND DI-GLYCERIDES OF FATTY ACIDS

INS	Name of additive
471	Mono- and di-glycerides of fatty acids

Food category	ML (mg/kg)	Notes
Vegetable fats and oils (excluding olive oils and virgin oils)	1000	

SUCROSE ESTERS OF FATTY ACIDS

INS	Name of additive
473	Sucrose esters of fatty acids

Food category	ML (mg/kg)	Notes
Matcha milk tea	GMP	
Rice drink	GMP	

SUCROGLYCERIDES

INS	Name of additive
474	Sucroglycerides

Food category	ML (mg/kg)	Notes
Cream powder analogues	5000	

POLYGLYCEROL ESTERS OF FATTY ACIDS

INS	Name of additive
475	Polyglycerol esters of fatty acids

Food category	ML (mg/kg)	Notes
Vegetable oils and fats	GMP	

POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

INS	Name of additive
476	Polyglycerol esters of interesterified ricinoleic acid

Food category	ML (mg/kg)	Notes
Cocoa and chocolate products	5000	

SODIUM STEAROYL LACTYLATE

INS	Name of additive
481(i)	Sodium stearyl lactylate

Food category	ML (mg/kg)	Notes
Vegetable oils and fats	10000	
Powders for preparing the hot beverage	2000	

SORBITAN TRISTEARAT

INS	Name of additive
492	Sorbitan tristearat

Food category	ML (mg/kg)	Notes
Vegetable oils and fats	10000	

SODIUM BICARBONATE

INS	Name of additive
500(ii)	Sodium bicarbonate

Food category	ML (mg/kg)	Notes
Table waters and soda waters	GMP	

POTASSIUM HYROGEN CARBONATE

INS	Name of additive
501(ii)	Potassium hyrogen carbonate

Food category	ML (mg/kg)	Notes
Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	

POTASSIUM HYDROGEN SULFAT

INS	Name of additive
515(ii)	Potassium hydrogen sulfat

Food category	ML (mg/kg)	Notes
Food categories in Appendix 3	GMP	

CALCIUM SULFATE

INS	Name of additive
516	Calcium sulfate

Food category	ML (mg/kg)	Notes
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Grilled fish, fish balls, prawn balls, squid patties

GMP

4 - HEXYL RESORCINOL

INS	Name of additive
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586	4-hexyl resorcinol
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Food category	ML (mg/kg)	Notes
Frozen and deep frozen crustaceans and molluscs	2	

ALANINE, DL -

INS	Name of additive
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639	Alanine, DL -
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Food category	ML (mg/kg)	Notes
Sauces and like products	10000	

GLYCIN

INS	Name of additive
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640	Glycin
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Food category	ML (mg/kg)	Notes
Breakfast cereals, including rolled oats	GMP	
Seasonings and condiments	GMP	
Soups and broths	GMP	
Sauces and like products	GMP	

OXIDISED POLYETHYLENE WAX

INS	Name of additive
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E914 Oxidised polyethylene wax

	Food category	ML (mg/kg)	Notes
	Surface-treated fresh fruit	GMP	569

CALCIUM PEROXIDE

INS	Name of additive
930	Calcium peroxide

	Food category	ML (mg/kg)	Notes
	Wheat flour for breading	75	

ACESULFAME POTASSIUM

INS	Name of additive
950	Acesulfame potassium

	Food category	ML (mg/kg)	Notes
	Soybean sauces	350	

ASPARTAME

INS	Name of additive
951	Aspartame

	Food category	ML (mg/kg)	Notes
	Soybean sauces	350	

SODIUM POLYACRYLATE

INS	Name of additive
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1210 Sodium polyacrylate

	Food category	ML (mg/kg)	Notes
	Pre-cooked pastas and noodles and like products	2000	

DISTARCH PHOSPHATE

INS	Name of additive
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1412	Distarch phosphate
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	Food category	ML (mg/kg)	Notes
	Grilled fish, fish balls, prawn balls, squid patties	GMP	

STARCH ACETATE ESTERIFIED WITH VINYL AXETAT

INS	Name of additive
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1421	Starch acetate esterified with vinyl axetat
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	Food category	ML (mg/kg)	Notes
	Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	GMP	
	Edible ices, including sherbet and sorbet	GMP	

PROPYLENE GLYCOL

INS	Name of additive
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1520	Propylene glycol
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	Food category	ML (mg/kg)	Notes
	Dairy-based desserts (e.g., pudding, fruit or flavored yoghurt, etc.)	GMP	
	Edible ices, including sherbet and sorbet	GMP	

Seasonings and condiments

GMP

Non-emulsified sauces (e.g. ketchup, chili sauce, cream sauce, brown gravy)

GMP

MEANING OF NOTES IN APPENDIX 2A AND APPENDIX 2B

Note No.	Meaning
1	As adipic acid
2	On the dry ingredient, dry weight, dry mix or concentrate basis
3	For use in surface treatment only
4	For use in decoration, stamping, marking or branding the product only
5	Excluding products conforming to the Codex stan 296- 2009
6	As aluminium
7	For use in coffee substitutes only.
8	As bixin.
9	Except for use in ready-to-drink coffee products at 10 000 mg/kg.
10	As ascorbyl stearate.
11	On the flour basis.
12	As a result of carryover from flavoring substances.
13	As benzoic acid.
14	For use in hydrolyzed protein liquid formula only.
15	On the fat or oil basis.
16	For use in glaze, coatings or decorations for fruit, vegetables, meat or fish only.
17	As cyclamic acid.
18	As added level; residue not detected in ready-to-eat food.
19	For use in products conforming to the Codex stan 92- 1981 and Codex stan 95-1981: INS 220, INS 221, INS 222, INS 223, INS 224, INS 225 as preservatives at 100 mg/kg in the edible part of the raw product, or 30 mg/kg in the edible part of the cooked product.
20	For use in products conforming to the Codex stan 167- 1989 and Codex stan 244- 2004 at 200 mg/kg, and in smoked fish and smoke-flavored fish in products conforming to the Codex stan 311-2013 at 2000 mg/kg for reduced oxygen packaged product only.
21	As anhydrous calcium disodium ethylenediaminetetraacetate.
22	For use in smoked fish paste only.

23	As iron.
24	As anhydrous sodium ferrocyanide.
25	For use at GMP in full fat soy flour only.
26	As steviol equivalents.
27	As para-hydroxybenzoic acid.
28	For use in wheat flour conforming to the Codex stan 152-1985 at 2 000 mg/kg.
29	For non-standardized food only.
30	As residual NO ₃ ion.
31	On the mash used basis.
32	As residual NO ₂ ion.
33	As phosphorus.
34	On the anhydrous basis.
35	For use in cloudy juices only.
36	On the residual level basis.
37	For products conforming to the Codex stan 87-1981 at 2 000 mg/kg.
38	On the creaming mixture basis.
39	On a total carotenoid basis.
40	Pentasodium triphosphate (INS 451(i)) only, to enhance the effectiveness of benzoates and sorbates.
41	For use in breading or batter coatings only.
42	As sorbic acid.
43	As tin.
44	As residual SO ₂ .
45	As tartaric acid.
46	As thiodipropionic acid.
47	On the dry egg yolk weight basis.
48	For use in olives only.
49	For use on citrus fruits only.
50	For use in fish roe only.
51	For use in herbs only.
52	Excluding chocolate milk.
53	For use in coatings only.
54	For use in cocktail cherries and candied cherries only.

55	Within the limits for sodium, calcium, and potassium specified in the Codex stan 72-1981: singly or in combination with other sodium, calcium, and/or potassium salts.
56	Excluding products where starch is present.
57	GMP is 1 part benzoyl peroxide and not more than 6 parts of the subject additive by weight.
58	As calcium.
59	For use as a packaging gas only.
60	The CO ₂ content in finished still wine shall not exceed 4000 mg/kg at 20°C.
61	For use in minced fish only.
62	As copper.
63	For non-standardized food and for breaded or batter coatings in food conforming to the Codex stan 166-1989.
64	For use in dry beans only.
65	As a result of carryover from nutrient preparations.
66	As formaldehyde.
67	For use in liquid egg whites at 8 800 mg/kg as phosphorus, and in liquid whole eggs at 14 700 mg/kg as phosphorus.
68	For use in products with no added sugar only.
69	For use as a carbonating agent only.
70	As the acid.
71	Calcium, potassium and sodium salts only.
72	On the ready-to-eat basis.
73	Excluding whole fish.
74	Excluding liquid whey and whey products used as ingredients in infant formula.
75	For use in milk powder for vending machines only.
76	For use in potatoes only.
77	For special nutritional uses only.
78	For use in pickling and balsamic vinegars at 50 000 mg/kg.
79	For use on nuts only.
80	Equivalent to 2 mg/dm ² surface application to a maximum depth of 5 mm.
81	Equivalent to 1 mg/dm ² surface application to a maximum depth of 5 mm.
82	For use in shrimp (Crangon crangon and Crangon vulgaris) at 6 000 mg/kg.
83	L(+)-form only.
84	For use in products for infants over 1 year of age only.
85	Use level in sausage casings; residue in sausage prepared with such casings should not exceed 100 mg/kg.

86	For use in whipped dessert toppings other than cream only.
87	On the treatment level basis.
88	As a result of carryover from the ingredient.
89	For use in sandwich spreads only.
90	For use in milk-sucrose mixtures used in the finished product only.
91	Singly or in combination: Benzoates and sorbates.
92	Excluding tomato-based sauces.
93	Excluding natural wine produced from Vitis vinifera grapes.
94	For use in loganiza (fresh, uncured sausage) only.
95	For non-standardized foods: for use in surimi and fish roe products only.
96	On the dried weight basis of the high intensity sweetener.
97	On the final cocoa and chocolate product basis.
98	For use in dust control only.
99	For use in products conforming to the Codex stan 117-1981.
100	For use in crystalline products and sugar toppings only.
101	When used in combination as emulsifiers: INS 442, 476, 491, 492, 432, 433, 435, 436, the total combined use level shall not exceed 15,000 mg/kg.
102	For use in fat emulsions for baking purposes only.
103	For use in special white wines at 400 mg/kg.
104	Excluding canned pears and canned pineapples conforming to the Codex stan 319- 2015.
105	For use in dried gourd strips (Kampyo) at 5 000 mg/kg.
106	For use in Dijon mustard at 500 mg/kg.
107	For use of INS 535 and INS 536 in food-grade dendridic salt at 29 mg/kg as anhydrous sodium ferrocyanide.
108	For use on coffee beans only.
109	Use level reported as $25 \text{ lbs}/1\,000 \text{ gal} \times (0.45 \text{ kg/lb}) \times (1 \text{ gal}/3.75 \text{ L}) \times (1 \text{ L/kg}) \times (10\text{E}6\text{mg/kg}) = 3000 \text{ mg/kg}$
110	For use in frozen French fried potatoes only.
111	For use in dried glucose syrup used in the manufacture of sugar confectionery at 150 mg/kg and glucose syrup used in the manufacture of sugar confectionery at 400 mg/kg.
112	For use in grated cheese only.
113	As acesulfame potassium equivalents (the reported maximum level can be converted to an aspartame-acesulfame salt basis by dividing by 0.44). Combined use of aspartame-acesulfame salt with individual acesulfame potassium or aspartame should not exceed the individual maximum levels for acesulfame potassium or

	aspartame (the reported maximum level can be converted to aspartame equivalents by dividing by 0.68).
114	For use in microsweets and breath freshening mints at 100 mg/kg.
115	For use in pineapple juice only.
116	For use in doughs only.
117	For use in loganiza (fresh, uncured sausage) at 1 000 mg/kg.
118	For use in tocino (fresh, cured sausage) at 1 000 mg/kg.
119	As aspartame equivalents (the reported maximum level can be converted to an aspartame-acesulfame salt basis by dividing by 0.64). Combined use of aspartameacesulfame salt with individual aspartame or acesulfame potassium should not exceed the individual maximum levels for aspartame or acesulfame potassium (the reported maximum level can be converted to acesulfame potassium equivalents by multiplying by 0.68).
120	For use in caviar substitutes at 2 500 mg/kg.
121	For use in fermented fish products at 1 000 mg/kg.
122	Subject to national legislation of the importing country.
123	For use of INS 491, 492, 493, 494 and 495 in combination up to a maximum level of 2000 mg/kg on the final cocoa and chocolate basis as emulsifiers in products conforming to the Codex Stan 105 - 1981.
124	For use in products containing less than 7% ethanol only.
125	For use in a mixture with vegetable oil only, as a release agent for baking pans.
126	For use in releasing dough in dividing or baking only.
127	On the served to the consumer basis.
128	INS 334 only.
129	For use as an acidity regulator in grape juice only.
130	Singly or in combination: INS 310, INS 319, INS 320 and INS 321.
131	For use as a flavor carrier only.
132	For use in semi-frozen beverages at 130 mg/kg on a dried basis.
133	Any combination of INS 320, INS 321 and INS 310 at 200 mg/kg, provided that single use limits are not exceeded.
134	For use in cereal-based puddings at 500 mg/kg.
135	For use in dried apricots at 2 000 mg/kg, bleached raisins at 1 500 mg/kg, desiccated coconut at 200 mg/kg and coconut from which oil has been partially extracted at 50 mg/kg.
136	For use to prevent browning of certain light colored vegetables only.
137	Except for use in frozen avocado at 300 mg/kg.

138	For use in energy-reduced products only.
139	For use in mollusks, crustaceans, and echinoderms only.
140	For use in canned abalone (PAUA) at 1 000 mg/kg.
141	Excluding canned pears and canned pineapples conforming to the Codex stan 319-2015
142	Excluding coffee and tea.
143	For use in fruit juice-based drinks and dry ginger ale only.
144	For use in sweet and sour products only.
145	For use in energy reduced or no added sugar products only.
146	Beta-carotene (synthetic) (INS 160a(i)) only.
147	Excluding whey powders for infant food.
148	For use in microsweets and breath freshening mints at 10 000 mg/kg.
149	For use in fish roe at 100 mg/kg.
150	For use in soy-based formula only.
151	For use in hydrolyzed protein and/or amino acid-based formula at 1 000 mg/kg.
152	For use in frying only.
153	For use in instant noodles only.
154	For use in coconut milk only.
155	For use in frozen, sliced apples only.
156	For use in microsweets and breath freshening mints at 2 500 mg/kg.
157	For use in microsweets and breath freshening mints at 2 000 mg/kg.
158	For use in microsweets and breath freshening mints at 1 000 mg/kg.
159	For use in pancake syrup and maple syrup only.
160	For use in ready-to-drink products and pre-mixes for ready-to-drink products only.
162	For use in dehydrated products and salami-type products only.
163	For use in microsweets and breath freshening mints at 3 000 mg/kg.
164	For use in microsweets and breath freshening mints at 30 000 mg/kg.
165	For use in products for special nutritional use only.
166	For use in milk-based sandwich spreads only.
167	For use in dehydrated products only.
168	Singly or in combination: INS 307a, 307b and 307c.
169	For use in fat-based sandwich spreads only.

170	Excluding products conforming to the Codex stan 243- 2003.
171	Excluding anhydrous milkfat.
172	For use in fruit sauces, fruit toppings, coconut cream, coconut milk and "fruit bars" at 50 mg/kg.
173	Excluding instant noodles containing vegetables and eggs.
174	Singly or in combination: INS 554, INS 556 and INS 559.
175	Except for use in jelly-type fruit-based desserts at 200 mg/kg.
176	For use in canned liquid coffee only.
177	For non-standardized food and for minced fish flesh and breaded or batter coatings conforming to the Codex stan 166- 1989.
178	As carminic acid.
179	For use in restoring the natural color lost in processing only.
180	Singly or in combination: INS 320 and INS 321.
181	As anthocyanin.
182	Excluding coconut milk.
183	For use in surface decoration only.
184	For use in nutrient coated rice grain premixes only.
185	As norbixin.
186	For use in flours with additives only.
187	INS 304 only.
188	If used in combination with aspartame-acesulfame salt (INS 962), the combined maximum use level, expressed as acesulfame potassium, should not exceed this level.
189	Excluding rolled oats.
190	For use in fermented milk drinks at 500 mg/kg.
191	If used in combination with aspartame-acesulfame salt (INS 962), the combined maximum use level, expressed as aspartame, should not exceed this level.
192	For use in liquid products only.
193	For use in crustacean and fish pastes only.
194	For use in instant noodles conforming to the CODEX STAN 249-2006 only.
195	Singly or in combination: INS 319, INS 320 and INS 321.
196	Singly or in combination: INS 320, INS 321 and INS 310.
197	Singly or in combination: INS 321 and INS 310.
198	For use in solid products (e.g., energy, meal replacement or fortified bars) only.

199	For use in microsweets and breath freshening mints at 6 000 mg/kg as steviol equivalents.
200	For use in Japanese style 'lachs ham' of pork loin (cured and non-heat-treated) at 120 mg/kg as steviol equivalents.
201	For use in flavored products only.
202	For use in brine used in the production of sausage only.
203	For use in chewable supplements only.
204	For use in longan and lichee at 50 mg/kg.
205	For use to prevent browning of certain light colored vegetables at 50 mg/kg.
206	For use as a bleaching agent in products conforming to the Codex stan 240-2003 at 30 mg/kg.
207	For use in soybean sauce intended for further processing at 50 000 mg/kg.
208	For use in dried and dehydrated products only.
209	Excluding products conforming to the Codex stan 251-2006.
210	For non-standardized food and for use as a humectant in products conforming to the Codex stan 166-1989; and for use as a thickener in breadings or batter coatings for products conforming to the Codex stan 166-1989.
211	For use in noodles only.
212	For use in products conforming to the Codex stan 117 - 1981 at 3 000 mg/kg.
213	For use in liquid products containing high intensity sweeteners only.
214	Excluding products conforming to the Codex stan 253-2006.
215	Excluding products conforming to the Codex stan 256-2007.
216	For use in maize-based products only.
217	For use in toppings at 300 mg/kg.
218	Only sulfites can be used as preservatives and antioxidants in the products covered by the Codex stan 177-1991.
219	For use in non-alcoholic aniseed-based, coconut-based, and almond-based drinks at 5 000 mg/kg.
220	For use in flavored products heat treated after fermentation only.
221	For use in potato dough and pre-fried potato slices only.
222	For use in collagen-based casings with a water activity greater than 0.6 only.
223	For use in products containing added fruits, vegetables, or meats at 3 000
224	Excluding aromatized beer.
225	For use in self-raising flour at 12,000 mg/kg.

226	For use as a meat tenderizer at 35,000 mg/kg
227	For use in sterilized and UHT treated milks only.
228	For use to stabilize higher protein liquid whey used for further processing into whey protein concentrates at 1 320 mg/kg.
229	For use as a flour treatment agent or leavening agent only.
230	For use as an acidity regulator only.
231	For use in flavored fermented milks and flavored fermented milks heat treated after fermentation only.
232	For use in vegetable fats conforming to the Codex stan 19-1981.
233	As nisin.
234	For use as a stabilizer or thickener only.
235	For use in reconstituted and recombined products only.
236	Excluding products conforming to the Codex stan 288-1976.
237	Excluding products conforming to the Codex stan 74-1981.
238	For use in products conforming to the Codex stan 74 - 1981 at GMP.
239	Excluding products conforming to the Codex stan 73-1981.
240	The use level is within the limit for sodium listed in the Codex stan 73-1981.
241	For use in surimi products only.
242	For use as an antioxidant only.
243	For use in products conforming to the Codex Stan 74-1981 only, as a raising agent.
244	For use in biscuit dough only.
245	For use in pickled vegetables only.
246	Singly or in combination: INS 523 and INS 541(i), 541(ii).
247	For use in kuzukiri and harusame only.
248	For use as a raising agent only.
249	For use as a raising agent in mixes for steamed breads and buns only.
250	For use in boiled mollusks and tsukudani only.
251	For use in processed American cheese only.
252	For use in self-rising flour and self-rising corn meal only.
253	For non-standardized foods and for use in minced fish flesh only in products conforming to the Codex stan 166- 1989.
254	For use in salt applied to dry salted cheeses during manufacturing only.
255	For use in seasonings applied to foods in food category 15.1 at 1 700 mg/kg.

256	For use in noodles, gluten-free pasta and pasta intended for hypoproteic diets only.
257	Except for use in breading or batter coatings in products conforming to the Codex stan 166-1989 only at 25 mg/kg as bixin.
258	Excluding maple syrup.
259	Singly or in combination: INS 554 and INS 556.
260	For use in powdered beverage whiteners only.
261	For use in heat-treated buttermilk only.
262	For use in edible fungi and fungus products only.
263	For use in pickled fungi at 20 000 mg/kg.
264	For use in sterilized fungi at 5 000 mg/kg: citric acid (INS 330) and lactic acid (INS 270), singly or in combination.
265	For use in quick frozen French fried potatoes only, as a sequestrant.
266	Excluding canned mangoes and canned pears conforming to the Codex stan 319-2015.
267	Excluding products conforming to the Codex stan 319-2015 except for use in special holiday packs for canned pears conforming to the standard.
268	Singly or in combination: INS 471, 472a, 472b and 472c in products conforming to the Codex Stan 74-1981.
269	Singly or in combination with other modified starches used as thickeners in products conforming to the Codex Stan 74-1981.
270	For use at 60 000 mg/kg, singly or in combination with other starch thickeners in products conforming to the Codex Stan 73-1981.
271	For use in products conforming to the CODEX STAN 73-1981 only.
272	Singly or in combination: INS 410, 412, 414, 415 and 440 at 20 000 mg/kg in glutenfree cereal based foods, and 10 000 mg/kg in other products conforming to the Codex stan 74-1981.
273	Singly or in combination: INS 410, 412, 414, 415 and 440 for use at 20 000
274	For use at 15 000 mg/kg in products conforming to the Codex stan 74-1981.
275	For use at 1 500 mg/kg In products conforming to the Codex stan 73-1981.
276	Singly or in combination with other modified starches used as thickeners in products conforming to the Codex Stan 73-1981.
277	Excluding virgin and cold pressed oils and products conforming to the Codex stan 33-1981.
278	For use in whipped cream and cream packed under pressure only.
279	Excluding products conforming to the Codex stan 38-1981.
280	For use in pickled radish only.

281	For use in fresh minced meat which contains other ingredients apart from comminuted meat only.
282	Only non-amidated pectins may be used in the Codex stan 73-1981.
283	For use in canned fruit-based baby foods conforming to the Codex stan 73-1981.
284	Singly or in combination: INS 1412, 1413, 1414 and 1440 in products conforming to the Codex Stan 72-1981.
285	Singly or in combination: INS 1412, 1413, 1414 and 1422 in products conforming to the Codex Stan 156-1987.
286	For use in products conforming to the Codex stan 89-1981 and the Codex stan 98-1981.
287	For use in products conforming to the Codex stan 88 -1981 at 30 mg/kg as residual NO ₂ ion.
288	For use in products conforming to the Codex stan 96-1981 and the Codex stan 97-1981.
289	For use of INS 339(i), 339(ii), 339(iii), 340(i), 340(ii), 340(iii), 341(i), 341(ii), 341(iii), 450(i), 450(ii), 450(iii), 450(v), 450(vii), 451(i), 451(ii), 452(i), 452(ii), 452(iii), 452(iv), 452(v), and 542 as humectants in products conforming to the Codex stan 96- 1981 and the Codex stan 97-1981. The total amount of phosphates (naturally present and added) shall not exceed 3 520 mg/kg as phosphorus.
290	For use in products conforming to the Codex stan 89-1981 and the Codex stan 98-1981 at 15 mg/kg to replace loss of color in product with binders only.
291	For use of INS 160e and INS 160f at 35 mg/kg.
292	For use in hydrolyzed protein and/or amino acid-based formula at 25 000 mg/kg.
293	On the saponin basis.
294	For use in liquid products at 600 mg/kg as steviol equivalents.
295	For use in products conforming to the Codex Stan 73-1981 only, as an acidity regulator.
296	For use in perilla in brine at 780 mg/kg.
297	The level in the ready-to-eat food shall not exceed 200 mg/kg on the anhydrous
298	For use in provolone cheese only.
299	For use in non-standardized food; and in products conforming to the Codex stan 166-1989: the following phosphates for use as humectants at 2200 mg/kg as phosphorous, INS 339(i), 339(ii), 339(iii), 340(i), 340(ii), 340(iii), 341(i), 341(ii), 341(iii), 450(i), 450(ii), 450(iii), 450(v), 450(vii), 451(i), 451(ii), 452(i), 452(ii), 452(iii), 452(iv), 452(v) and 542; and the following phosphates for use as raising agents in bread and batter coatings only at 440 mg/kg as phosphorous, INS 339(i), 340(iii), 341(i), 341(ii), 341(iii), 450(i), 450(ii), 450(iii), 450(v), 450(vi), 450(vii), 450(ix), 452(i), 452(ii), 452(iii) and 452(iv).
300	For use in salted squid only.

301	Interim maximum level.
302	For use of INS 339(i), 339(ii), 339(iii), 340(i), 340(ii), 340(iii), 341(i), 341(ii), 341(iii), 450(i), 450(ii), 450(iii), 450(v), 450(vii), 451(i), 451(ii), 452(i), 452(ii), 452(iii), 452(iv), 452(v) and 542 as humectants in products conforming to the Codex stan 96- 1981 and the Codex stan 97-1981 at 1320 mg/kg as phosphorous. The total amount of phosphates (naturally present and added) shall not exceed 3520 mg/kg as phosphorous.
303	Excluding products (other than white chocolate) conforming to the Codex stan 87-1981.
304	For use only in breaded or batter coatings in products conforming to the Codex stan 166-1989, singly or in combination: INS 160a(i), 160a(iii), 160e, 160f and 160a(ii).
305	for use in breaded or batter coatings in products conforming to the Codex stan 166-1989 only at 25 mg/kg as norbixin.
306	Excluding products conforming to the Codex stan 189-1993, the Codex stan 222-2001, the Codex stan 236-2003, the Codex stan 312-2003, and the Codex stan 315-2014.
307	Excluding raw squid.
308	For use in raw mollusks only.
309	For use in breaded or battered foods applied to non-standardized foods only.
310	For use in products conforming to the Codex stan 37-1981 and the Codex stan 90-1981 at 250 mg/kg.
311	For use in terrine only.
312	For use in tsukudani and surimi products only.
313	For use in products conforming to the CODEX STAN 222-2001.
314	For use in yeast extracts.
315	Singly or in combination: INS 300, 301, 302 and 304.
316	Within the limit for sodium specified in the Codex stan 156-1987: singly or in combination with other sodium containing additives.
317	As ascorbic acid.
318	In dry cereal only.
319	Within the limit for sodium specified in the Codex stan 73-1981: singly or in combination with other sodium containing additives.
320	Within the limit for sodium specified in the Codex stan 74-1981: singly or in combination with other sodium containing additives.
321	For use in powdered mixes only.
322	For use in products conforming to the Codex stan 19-1981 and the Codex stan 211-1999.

323	For use as firming agent.
324	For use in aloe vera only.
325	For general use in surimi products.
326	For use in fresh meat, poultry and game products only.
327	For use in fish products cooked in soy sauce.
328	Singly or in combination with other thickeners.
329	Use level in milk and soy based products only.
330	Except for use in canned products.
331	For non-standardized foods: for use in minced fish, shrimps and prawns only.
332	For general use as a glazing agent.
333	In foods conforming to the Codex stan 311-2013, for use in reduced oxygen packaged products in smoked fish and smoke-flavored fish products only.
334	For salted fish with a salt content of greater than or equal to 18 percent during processing.
335	For use in products containing vegetable protein only.
336	For use in Chinese plum juices only.
337	For use in products conforming to the Codex stan 117-1981 at 50 mg/kg.
338	For use in products conforming to the Codex stan 117-1981 singly or in combination: INS 200, 202, 203, 210, 211, 212 and 213 at 500 mg/kg as sorbic acid (INS 200-203) or as benzoic acid (INS 210-213).
339	Excluding use for canned bouillons and consommés.
340	Except for products not conforming to the Codex stan 117-1981 at 100 mg/kg.
341	For use in products conforming to the Codex stan 117-1981 singly or in combination: INS 160a(ii), 160e and 160f at 50 mg/kg.
342	For use of INS 141(i) only in products conforming to the Codex stan 117-1981.
343	For use in products conforming to the Codex stan 117-1981: INS 339(i), 339(ii), 339(iii), 340(i), 340(ii), 340(iii), 450(i), 450(ii), 450(iii), 450(v), 451(i), 451(ii), 452(i) and 452(ii) as acidity regulators at 440 mg/kg as phosphorus; INS 341(i), 341(ii) and 341(iii) as anticaking agents at 800 mg/kg as phosphorus on the dry matter basis in dehydrated products only; and INS 450(vi) and INS 452(iv) as emulsifiers, stabilizers, and thickeners at 1320 mg/kg as phosphorus.
344	For use of INS 101(i) only in products conforming to the Codex stan 117-1981.
345	For use in products conforming to the Codex stan 117-1981: INS 473 and INS 474 singly or in combination at 2000 mg/kg.
346	For use in products conforming to the Codex stan 117- 1981: INS 307a, 307b and INS 307c singly or in combination at 50 mg/kg.

347	Excluding plain products.
348	Singly or in combination: INS 473, INS 473a and INS 474.
349	For use at 7,000 mg/kg in bakery cream fillings only.
350	For use at 10,000 mg/kg in cream powder analogues only.
351	Only for use in products conforming to the Codex stan 275- 1973.
352	Except for use at 6,000 mg/kg in products with > 20% fat content.
353	On dry basis.
354	For use at 2,000 mg/kg in flavored products conforming to the Codex stan 243-2003 only.
355	For use at 10,000 mg/kg in flavored products conforming to the Codex stan 243-2003 only.
356	Excluding virgin or cold pressed oils.
357	For use in refined olive oil, olive oil, refined olive-pomace oil and olivepomace oil at 200 mg/kg to restore natural tocopherol lost in production.
358	For use in fish oils at 6,000 mg/kg, singly or in combination.
359	Excluding dairy fat spreads with $\geq 70\%$ milk fat content.
360	In dairy fat spreads limited to products with < 70% fat content or baking purposes
361	For use at 5,000 mg/kg as tartaric acid in products conforming to the Codex stan 253-2006.
362	Excluding plain products conforming to the Codex stan 243-2004.
363	For use at 50,000 mg/kg for emulsified oils used in the production of noodles or bakey products.
364	Singly or in combination.
365	On a casings basis.
366	10,000 mg/kg in imitation chocolate with >5% water content.
367	For use at 10,000 mg/kg in candy containing not less than 10% oil.
368	For use at 10,000 mg/kg in whipped decorations.
369	For use in granola-type breakfast cereals only.
370	For use in noodles, skin or crusts for spring rolls, wontons, and shou mai only.
371	For use at 10,000 mg/kg in boiled noodles only.
372	For use in rolls only.
373	For use in sausage only.
374	For use in cooked frozen meat products only.
375	Excluding products conforming to the Codex stan 87-1981 except for white

	chocolate, where ascorbyl palmitate (INS 304) may be used only as an antioxidant at 200 mg/kg calculated on a fat content basis.
376	For use in hydrolyzed protein and/or amino acid based infant formula only.
377	For products conforming to the Codex stan 89-1981, the Codex stan 98-1981 and the Codex stan 88-1981, use is limited to ready-to-eat products which require refrigeration.
378	For use in liquid infant formula only.
379	For use in hydrolyzed protein and/or amino acid based liquid infant formula only.
380	For use in powdered infant formula at 7,500 mg/kg.
381	As consumed.
382	For use only in smoked fish and smoke-flavored fish products conforming to the Codex stan 311-2013.
383	For use in gelatin powder only.
384	On a gelatin powder basis.
385	As a humectant for wetting of fumaric acid (INS 297).
386	For use in the Codex stan 115-1981 at 500 mg/kg, singly or in combination with other emulsifiers.
387	For use at 20000 mg/kg in powdered sugar for fine bakery wares.
388	Excluding bread prepared solely with wheat flour, water, yeast or leaven, and salt.
389	For use at 500 mg/kg in products containing nut paste.
390	For use as an antioxidant for non-standardized food and for raw chilled shucked mollusks conforming to the Codex stan 292-2008.
391	For non-standardized food and for minced fish flesh only in products conforming to the Codex stan 165-1989.
392	For non-standardized food and for products conforming to the Codex stan 292-2008: for use as an antioxidant for raw frozen molluscs.
393	For use on Quick Frozen Scallop Meat and Quick Frozen Roe-on Scallop Meat Processed with phosphates conforming to the Codex stan 315-2014 as follows: the following phosphates at 2200 mg/kg as phosphorus for use as acidity regulators: INS 338, 339(i, ii, iii), 340(i, ii, iii), 341(i, ii, iii), 342(i, ii), 343(i, ii, iii), 450(i, ii, iii, v, vi, vii, ix), 451(i, ii) and 452(i, ii, iii, iv, v); the following for use as humectants: INS 339(i, ii, iii), 340(i, ii, iii), 341(i, ii, iii), 450(i, ii, iii, v, vii), 451(i, ii), 452(i, ii, iii, iv, v) and 542; the following for use as sequestrants: INS 338, 339(i, ii, iii), 340(i, ii, iii), 341(i), 450(i, ii, iii, v, vi, vii), 451(i, ii) and 452(i, ii, iii, iv, v); and the following for use as stabilizers: INS 339(i, ii, iii), 340(i, ii, iii), 341(i, ii, iii), 342(i, ii), 343(i, ii, iii), 450(i, ii, iii, v, vi, vii, ix), 451(i, ii), 452(i, ii, iii, iv, v) and 542.
394	For use in non-standardized food; and in products conforming to the Codex stan 92-1981, the Codex stan 95- 1981, the Codex stan 165-1989 and the Codex stan 190-1995 as humectants at 2200 mg/kg as phosphorous: INS 339(i, ii, iii), 340(i, ii, iii),

	341(i, ii), 450(iii, v, vii), 452(i, ii), 452(i, ii, iii, iv, v) and 542.
395	For use in heat-treated products conforming to the Codex stan 92-1981.
396	For products conforming to the Codex stan 96-1981 and the Codex stan 97-1981, use is limited to ready-to-eat products which require refrigeration.
397	For use at 1000 mg/kg in non-UHT and non-sterilised buttermilk.
398	For use in products conforming to the Codex stan 243-2003 at 1000 mg/kg.
399	For use in products conforming to the Codex stan 243-2003 at 10,000 mg/kg.
400	For use in products conforming to the Codex stan 243-2003 at 150 mg/kg.
401	For use in products conforming to the Codex stan 243-2003 at 600 mg/kg.
402	For use in products conforming to the Codex stan 243-2003 at 100 mg/kg.
403	Excluding fermented milks and drinks not heat-treated after fermentation.
404	For use in energy-reduced products or products with no added sugar conforming to the Codex stan 243-2003 at 400 mg/kg.
405	For use in energy-reduced products or products with no added sugar conforming to the Codex stan 243-2003 at 1000 mg/kg.
406	For use in energy-reduced products or products with no added sugar conforming to the Codex stan 243-2003 at 100 mg/kg.
407	For use in non-flavored vitamin and mineral fortified fluid milks only.
408	Only for use as an emulsifier in products conforming to the Codex stan 328-2017, or as an antifoaming agent in oils and fats for deep frying conforming to the Codex stan 19-1981.
409	For use only in products intended for further processing or special dietary uses, reduced or low sugar content, or where sweetening properties have been replaced wholly or partially by food additive sweeteners.
410	Excluding lactose reduced milks.
411	Except for use in lactose reduced milks at 500 mg/kg.
412	For use in fish sausage only.
413	INS 452(i-v) only in products conforming to the Codex stan 222-2001.
414	For use in marinated products only.
415	For use in pickled products only.
416	Tocopherol concentrate, mixed (INS 307b) only.
417	For use in capsule and tablet form.
418	For use at 6,000 mg/kg, singly or in combination, on the basis of fish oils.
419	For use only in ready-to-eat products that require refrigeration.
420	Except for use at 700 mg/kg in smoked molluscs and salted molluscs.

421	For use in pastes and condiment products containing plant-derived oils only.
422	For use in curry roux only.
423	For use in dashi and furikake only.
424	For general use as a glazing agent.
425	Singly or in combination: INS 473 and INS 473a.
426	For use in concentrated marinades applied to food at 20,000 mg/kg.
427	For use in concentrated marinades applied to food at 10,000 mg/kg.
428	As residue in biscuits and rusks.
429	For use in canned coffee with milk at 2000 mg/kg.
430	Only for use in emulsified liquors.
431	Excluding use in whiskey.
432	For use in doughs used in cereal based savory snacks only.
433	For use in rice crackers and potato snacks only.
434	Carry-over from use as an antioxidant in flavors, colors, juice ingredients and
435	For use of INS 102, INS 110, INS 123 and INS 124 singly or in combination up to a maximum level of 30 mg/kg in the final product as colors only for the purpose of restoring color lost in processing for products conforming to the Codex stan 37-1991.
436	For use as acidity regulators only: in products conforming to the Codex stan 37-1991 only INS 338 is permitted up to a maximum of 540 mg/kg as phosphorus; in products conforming to the Codex stan 70-1981, INS 450(i) is permitted up to a maximum of 4,400 mg/kg as phosphorus (including natural phosphates); in products conforming to the Codex stan 90-1981 only INS 338 and INS 450(i) are permitted up to a maximum of 4,400 mg/kg, singly or in combination, as phosphorus (including natural phosphates).
437	Excluding use in smoke-dried fish conforming to the Codex stan 311-2013.
438	Only for use as emulsifier or stabilizer.
439	For UHT milk from non-bovine species only.
550	Maximum limit for aluminium coming from all aluminium lakes of INS 120 10 mg/kg. No other aluminium lakes may be used.
551	Maximum limit for aluminium coming from all aluminium lakes of INS 120 10 mg/kg.
552	Maximum limit for aluminium coming from all aluminium lakes 120 mg/kg.
553	Maximum limit for aluminium coming from all aluminium lakes 30 mg/kg.
554	Maximum limit for aluminium coming from all aluminium lakes 70 mg/kg and maximum limit only for microsweets shall be 40 mg/kg.

555	Maximum limit for aluminium coming from all aluminium lakes 300 mg/kg.
556	Maximum limit for aluminium coming from all aluminium lakes 15 mg/kg.
557	Maximum limit for aluminium coming from all aluminium lakes of INS 120 5 mg/kg. No other aluminium lakes may be used.
558	Only preserves of red fruit.
559	Only preserves of red fruit and vegetable, excluding olive oils.
560	Only mostarda di frutta, only preserves of red fruit and seaweed based fish roe analogues.
561	Excluding chestnut purée.
562	Excluding prune purée.
563	Singly or in combination: INS 120, INS 162 and INS 163.
564	As P ₂ O ₅ .
565	For use in products with a poultry and game content less than 80%
566	The unit is mg/l, ready for consumption prepared following manufacturers' instructions
567	Excluding products in categories milk and milk products, edible ices, fruits and vegetables.
568	Excluding products in categories 05.1, 05.3 and 05.4 of Appendix 4.
569	Only for the surface treatment of citrus fruits, melons, papayas, mangoes, avocados and papayas
XS13	Excluding products conforming to the Codex stan 13-1981.
XS36	Excluding products conforming to the Codex stan 36-1981.
XS38	Excluding products conforming to the Codex stan 38-1981.
XS57	Excluding products conforming to the Codex stan 57-1981.
XS66	Excluding products conforming to the Codex stan 66-1981.
XS86	Excluding products conforming to the Codex stan 86-1981.
XS87	Excluding products conforming to the Codex stan 87-1981.
XS88	Excluding products conforming to the Codex stan 88-1981.
XS89	Excluding products conforming to the Codex stan 89-1981.
XS92	Excluding products conforming to the Codex stan 92-1981.
XS95	Excluding products conforming to the Codex stan 95-1981.
XS96	Excluding products conforming to the Codex stan 96-1981.
XS97	Excluding products conforming to the Codex stan 97-1981.
XS98	Excluding products conforming to the Codex stan 98-1981.

XS105	Excluding products conforming to the Codex stan 105-1981.
XS115	Excluding products conforming to the Codex stan 115-1981.
XS117	Excluding products conforming to the Codex stan 117-1981.
XS141	Excluding products conforming to the Codex stan 141-1983.
XS145	Excluding products conforming to the Codex stan 145-1985.
XS165	Excluding products conforming to the Codex stan 165-1989.
XS166	Excluding products conforming to the Codex stan 166-1989.
XS189	Excluding products conforming to the Codex stan 189-1993.
XS190	Excluding products conforming to the Codex stan 190-1995.
XS191	Excluding products conforming to the Codex stan 191-1995.
XS208	Excluding products conforming to the Codex stan 208-1999.
XS222	Excluding products conforming to the Codex stan 222-2001.
XS236	Excluding products conforming to the Codex stan 236-2003.
XS240	Excluding products conforming to the Codex stan 240-2003.
XS243	Excluding products conforming to the Codex stan 243-2003.
XS250	Excluding products conforming to the Codex stan 250-2006.
XS251	Excluding products conforming to the Codex stan 251-2006.
XS252	Excluding products conforming to the Codex stan 252-2006.
XS253	Excluding products conforming to the Codex stan 253-2006.
XS257R	Excluding products conforming to the Codex stan 257R-2007.
XS259R	Excluding products conforming to the Codex stan 259R-2007.
XS260	Excluding products conforming to the Codex stan 260-2007.
XS262	Excluding products conforming to the Codex stan 262-2007.
XS292	Excluding products conforming to the Codex stan 292-2008.
XS297	Excluding products conforming to the Codex stan 297-2009.
XS309R	Excluding products conforming to the Codex stan 309R-2011.
XS311	Excluding products conforming to the Codex stan 311-2013.
XS312	Excluding products conforming to the Codex stan 312-2013.
XS314R	Excluding products conforming to the Codex stan 314R-2013.
XS315	Excluding products conforming to the Codex stan 315-2014.
XS67	Excluding products conforming to the Codex stan 67-1981.
XS130	Excluding products conforming to the Codex stan 130-1981.

XS160	Excluding products conforming to the Codex stan 160-1987.
XS211	Excluding products conforming to the Codex stan 211-1999.
XS296	Excluding products conforming to the Codex stan 296-2009.
XS73	Excluding products conforming to the Codex stan 73-1981.
XS167	Excluding products conforming to the Codex stan 167-1989.
XS244	Excluding products conforming to the Codex stan 244-2004.
XS291	Excluding products conforming to the Codex stan 291-2010.
XS302	Excluding products conforming to the Codex stan 302-2011.
XS306R	Excluding products conforming to the Codex stan 306R-2011.
XS326	Excluding products conforming to the Codex stan 326-2017.
XS327	Excluding products conforming to the Codex stan 327-2017.
XS328	Excluding products conforming to the Codex stan 328-2017.
XS319	Excluding products conforming to the Codex stan 319-2015.
XS33	Excluding products conforming to the Codex stan 33-1981.
XS94	Excluding products conforming to the Codex stan 94-1981.
XS3	Excluding products conforming to the Codex stan 3-1981.
XS37	Excluding products conforming to the Codex stan 37-1991.
XS70	Excluding products conforming to the Codex stan 70-1981.
XS90	Excluding products conforming to the Codex stan 90-1981.
XS119	Excluding products conforming to the Codex stan 119-1981.

APPENDIX 3

LIST OF PERMITTED FOOD ADDITIVES AND FOODS IN WHICH FOOD ADDITIVES ARE USED UNDER GMP

(Enclosed with the Circular No. 24/2019/TT-BYT dated August 30, 2019)

1. List of food additives used under GMP

No.	INS	Name of additive
1	140	Chlorophylls
2	150a	Caramel I – plain caramel
3	160d(i)	Lycopene, synthetic
4	160d(ii)	Lycopene, tomato

5	160d(iii)	Lycopene, Blakeslea trispora
6	161b(iii)	Lutein esters from Tagetes erecta
7	162	Beet red
8	170(i)	Calcium carbonate
9	171	Titanium dioxide
10	260	Acetic acid, glacial
11	261(i)	Potassium acetate
12	262(i)	Sodium acetate
13	263	Calcium acetate
14	270	Lactic acid, L-, D- and DL-
15	280	Propionic acid
16	281	Sodium propionate
17	282	Calcium propionate
18	283	Potassium propionate
19	290	Carbon dioxide
20	296	Malic acid, DL-
21	297	Fumaric acid
22	300	Ascorbic acid, L-
23	301	Sodium ascorbate
24	302	Calcium ascorbate
25	315	Erythorbic Acid (Isoascorbic acid)
26	316	Sodium erythorbate (Sodium isoascorbate)
27	322(i)	Lecithin
28	325	Sodium lactate
29	326	Potassium lactate
30	327	Calcium lactate
31	329	Magnesium lactate, DL-
32	330	Citric acid
33	331(i)	Sodium dihydrogen citrate
34	331(iii)	Trisodium citrate
35	332(i)	Potassium dihydrogen citrate
36	332(ii)	Tripotassium citrate

37	333(iii)	Tricalcium citrate
38	350(i)	Sodium hydrogen DL-malate
39	350(ii)	Sodium DL-malate
40	352(ii)	Calcium malate, DL-
41	365	Sodium fumarates
42	380	Triammonium citrate
43	400	Alginic acid
44	401	Sodium alginate
45	402	Potassium alginate
46	403	Ammonium alginate
47	404	Calcium alginate
48	406	Agar
49	407	Carrageenan
50	407a	Processed eucheuma seaweed (PES)
51	410	Carob bean gum
52	412	Guar gum
53	413	Tragacanth gum
54	414	Gum arabic (Acacia gum)
55	415	Xanthan gum
56	416	Karaya gum
57	417	Tara gum
58	418	Gellan gum
59	420(i)	Sorbitol
60	420(ii)	Sorbitol syrup
61	421	Mannitol
62	422	Glycerol
63	423	Octenyl succinic acid (OSA) modified gum arabic
64	424	Curdlan
65	425	Konjac flour
66	427	Cassia gum
67	440	Pectins
68	457	Cyclodextrin, alpha-

69	458	Cyclodextrin, gamma-
70	460(i)	Microcrystalline cellulose (Cellulose gel)
71	460(ii)	Powdered cellulose
72	461	Methyl cellulose
73	462	Ethyl cellulose
74	463	Hydroxypropyl cellulose
75	464	Hydroxypropyl methyl cellulose
76	465	Methyl ethyl cellulose
77	466	Sodium carboxymethyl cellulose (Cellulose gum)
78	467	Ethyl hydroxyethyl cellulose
79	468	Cross-linked sodium carboxymethyl cellulose (Cross-linked- cellulose gum)
80	469	Sodium carboxymethyl cellulose, enzymatically hydrolysed (Cellulose gum, enzymatically hydrolyzed)
81	470(i)	Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium
82	470(ii)	Salts of oleic acid with calcium, potassium and sodium
83	470(iii)	Magnesium stearate
84	471	Mono- and di-glycerides of fatty acids
85	472a	Acetic and fatty acid esters of glycerol
86	472b	Lactic and fatty acid esters of glycerol
87	472c	Citric and fatty acid esters of glycerol
88	500(i)	Sodium carbonate
89	500(ii)	Sodium hydrogen carbonate
90	500(iii)	Sodium sesquicarbonate
91	501(i)	Potassium carbonate
92	501(ii)	Potassium hydrogen carbonate
93	503(i)	Ammonium carbonate
94	503(ii)	Ammonium hydrogen carbonate
95	504(i)	Magnesium carbonate
96	504(ii)	Magnesium hydroxide carbonate
97	507	Hydrochloric acid
98	508	Potassium chloride
99	509	Calcium chloride

100	510	Ammonium chloride
101	511	Magnesium chloride
102	514(i)	Sodium sulfate
103	514(ii)	Sodium hydrogen sulfate
104	515(i)	Potassium sulfate
105	516	Calcium sulfate
106	518	Magnesium sulfate
107	524	Sodium hydroxide
108	525	Potassium hydroxide
109	526	Calcium hydroxide
110	527	Ammonium hydroxide
111	528	Magnesium hydroxide
112	529	Calcium oxide
113	530	Magnesium oxide
114	551	Silicon dioxide, amorphous
115	552	Calcium silicate
116	553(i)	Magnesium silicate, synthetic
117	553(iii)	Talc
118	575	Glucono delta-lactone
119	576	Sodium gluconate
120	577	Potassium gluconate
121	578	Calcium gluconate
122	580	Magnesium gluconate
123	620	Glutamic acid, L(+)-
124	621	Monosodium L-glutamate
125	622	Monopotassium L-glutamate
126	623	Calcium di-L-glutamate
127	624	Monoammonium L-glutamate
128	625	Magnesium di-L-glutamate
129	626	Guanylic acid, 5'-
130	627	Disodium 5'-guanylate
131	628	Dipotassium 5'-guanylate

132	629	Calcium 5'-guanylate
133	630	Inosinic acid, 5'-
134	631	Disodium 5'-inosinate
135	632	Potassium 5'-inosinate
136	633	Calcium 5'-inosinate
137	634	Calcium 5'-ribonucleotides
138	635	Disodium 5'-ribonucleotides
139	941	Nitrogen
140	942	Nitrous oxide
141	953	Isomalt (Hydrogenated isomaltulose)
142	957	Thaumatococcus
143	964	Polyglycitol syrup
144	965(i)	Maltitol
145	965(ii)	Maltitol syrup
146	966	Lactitol
147	967	Xylitol
148	968	Erythritol
149	1102	Glucose oxidase
150	1104	Lipases
151	1200	Polydextroses
152	1202	Polyvinylpyrrolidone, insoluble
153	1204	Pullulan
154	1400	Dextrins, roasted starch
155	1401	Acid-treated starch
156	1402	Alkaline treated starch
157	1403	Bleached starch
158	1404	Oxidized starch
159	1405	Starches, enzyme treated
160	1410	Monostarch phosphate
161	1412	Distarch phosphate
162	1413	Phosphated distarch phosphate
163	1414	Acetylated distarch phosphate

164	1420	Starch acetate
165	1422	Acetylated distarch adipate
166	1440	Hydroxypropyl starch
167	1442	Hydroxypropyl distarch phosphate
168	1450	Starch sodium octenyl succinate
169	1451	Acetylated oxidized starch
170	1518	Triacetin
171	1100(i)	alpha-Amylase from <i>Aspergillus oryzae</i> var.
172	1100(ii)	alpha-Amylase from <i>Bacillus stearothermophilus</i>
173	1100(iii)	alpha-Amylase from <i>Bacillus subtilis</i>
174	1100(iv)	alpha-Amylase from <i>Bacillus megaterium</i> expressed in <i>Bacillus subtilis</i>
175	1100(v)	alpha-Amylase from <i>Bacillus stearothermophilus</i> expressed in <i>Bacillus subtilis</i>
176	1100(vi)	Carbohydrase from <i>Bacillus licheniformis</i>
177	1101(i)	Protease from <i>Aspergillus oryzae</i> var.
178	1101(ii)	Papain
179	1101(iii)	Bromelain
180	1504(i)	Cyclotetraglucose
181	1504(ii)	Cyclotetraglucose syrup

2. Foods in which additives are used under GMP

Food category No.	Food category
01.1.4	Flavored fluid milk drinks
01.2.1.2	Fermented milks (plain), heat-treated after fermentation (For food additives in Section 1 Appendix 3 used as acidity regulators, packaging gas, stabilizers or thickeners)
01.3	Condensed milk and analogues (plain)
01.4.3	Clotted cream (plain)
01.4.4	Cream analogues
01.5	Milk powder and cream powder and powder analogues (plain)
01.6.1	Unripened cheese
01.6.2	Ripened cheese
01.6.4	Processed cheese
01.6.5	Cheese analogues

01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yoghurt)
01.8.1	Liquid whey and whey products, excluding whey cheeses
02.2.2	Fat spreads, dairy fat spreads and blended spreads
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavored products based on fat emulsions
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7
03.0	Edible ices, including sherbet and sorbet
04.1.2	Processed fruit
04.2.2.2	Surface-treated fresh vegetables, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds and nuts and seeds.
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce.
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds.
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter).
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5.
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds
05.0	Confectionery
06.3	Breakfast cereals, including rolled oats
06.4.3	Pre-cooked pastas and noodles and like products
06.5	Cereal and starch based desserts (e.g. rice pudding, tapioca pudding, etc.)
06.6	Batters (e.g. for breading or batters for fish or poultry)
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)
06.8	Soybean products (excluding soybean-based seasonings and condiments of food category 12.9)
07.0	Bakery wares
08.2	Processed meat, poultry, and game products in whole pieces or cuts
08.3	Processed comminuted meat, poultry, and game products

08.4	Edible casings (e.g., sausage casings)
09.3	Semi-preserved fish and fish products, including molluscs, crustaceans, and echinoderms
09.4	Fully preserved, including canned or fermented fish and fish products, including molluscs, crustaceans, and echinoderms
10.2.3	Dried and/or heat coagulated egg products
10.3	Preserved eggs, including alkaline, salted, and canned eggs
10.4	Egg-based desserts (e.g. custard)
11.6	Table-top sweeteners, including those containing high-intensity sweeteners
12.2.1	Herbs and spices (excluding herbs)
12.2.2	Seasonings and condiments
12.3	Vinegars
12.4	Mustards
12.5	Soups and broths
12.6	Sauces and like products
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa-and nut-based spreads of food categories 04.2.2.5 and 05.1.3
12.8	Yeast and like products
12.9	Soybean-based seasonings and condiments
12.10	Protein products other than from soybeans
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)
13.4	Dietetic formulae for slimming purposes and weight reduction
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1- 13.4 and 13.6
13.6	Food supplements based on vitamin and mineral elements
14.1.4	Water-based flavored drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks
14.2.1	Beer and malt beverages
14.2.2	Cider and perry
14.2.4	Wines (other than grape)
14.2.5	Mead
14.2.6	Distilled spirits containing more than 15% alcohol
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type

	beverages)
15.0	Ready-to-eat savouries
16.0	Prepared foods - not included in the other food categories 01-15

APPENDIX 4

FOOD CATEGORY DESCRIPTORS

(Enclosed with the Circular No. 24/2019/TT-BYT dated August 30, 2019)

Food category No.	Food category	Descriptor
01.0	Dairy products and analogues, excluding products of food category 02.0	Includes all types of dairy products that are derived from the milk of any milking animal (e.g. cow, sheep, goat, buffalo). In this category, with the exception of food category 1.1.4, a “plain” product is one that is not flavored, nor contains fruit, vegetables or other non-dairy ingredients, nor is mixed with other non-dairy ingredients, unless permitted by relevant standards. Analogues are products in which milk fat has been partially or wholly replaced by vegetable fats or oils.
01.1	Fluid milk and milk products	Includes all plain and flavored fluid milks based on skim, part-skim, low-fat and whole milk, excluding plain fermented products and plain renneted milk products of food category 1.2. Fluid milks are 'milk products' as defined in CODEX STAN 206-1999, that are obtained by the processing of milk, and may contain food additives and other ingredients functionally necessary for processing. Raw milk (“milk” as defined in CODEX STAN 206- 1999) shall not contain any food additives.
01.1.1	Fluid milk (plain)	Plain fluid milk obtained from milking animals (e.g., cows, sheep, goats, buffalo) that has been processed. Includes pasteurized, ultra-high temperature (UHT) treated, sterilized, homogenized, or fat adjusted milk. Includes, but is not limited to, skim, part-skim, low-fat and whole milk.
01.1.2	Other fluid milks (plain)	Includes all plain fluid milk, excluding products of food categories 01.1.1 Fluid milk (plain), 01.1.3 Fluid buttermilk (plain), and 01.2 Fermented and renneted milk products

		(plain). Includes, but is not limited to, plain recombined fluid milks, plain reconstituted fluid milks, plain composite milks, non-flavored vitamin and mineral fortified fluid milks, protein adjusted milks, lactose reduced milk, and plain milk-based beverages. In this food category, plain products contain no added flavoring nor other ingredients that intentionally impart flavor, but may contain other non-dairy ingredients.
01.1.3	Fluid buttermilk (plain)	Fluid buttermilk is the nearly milkfat-free fluid remaining from the butter-making process (i.e. churning fermented or non-fermented milk and cream). Fluid buttermilk is also produced by fermentation of fluid skim milk, either by spontaneous souring by the action of lactic acid-forming or aroma-forming bacteria, or by inoculation of heated milk with pure bacterial cultures (cultured buttermilk). Fluid buttermilk may be pasteurized or sterilized.
01.1.4	Flavored fluid milk drinks	Includes all mixes and ready-to-drink fermented or not fermented milk-based drinks with flavorings and/or food ingredients that intentionally impart flavor, excluding mixes for cocoa (cocoa-sugar mixtures, category 05.1.1). Examples, include but are not limited to, chocolate milk, chocolate malt drinks, strawberry-flavored yoghurt drink, lactic acid bacteria drinks, whey-based drinks, and lassi (liquid obtained by whipping curd from the lactic acid fermentation of milk, and mixing with sugar or intense sweetener).
01.2	Fermented and renneted milk products (plain)	Includes all plain fermented or renneted products based on skim, part-skim, low-fat and whole milk, excluding food category 01.1.4. Flavored products are included in 01.1.4 (beverages) and 01.7 (desserts).
01.2.1	Fermented milks (plain)	Includes all plain products, including fluid fermented milk, acidified milk and cultured milk. Plain yoghurt and plain drinks based on fermented milk, which do not contain flavoring or colors, may be found in one of the sub-categories of 01.2.1 depending on whether it is heat-treated after fermentation or not.
01.2.1.1	Fermented milks (plain), not heat treated after fermentation	Includes fluid and non-fluid plain products, such as yoghurt and plain drinks based on

		fermented milk.
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	Products similar to that in 01.2.1.1, except that they have been heat-treated (e.g. sterilized or pasteurized) after fermentation.
01.2.2	Renneted milk (plain)	Plain, coagulated milk produced by the action of milk coagulating enzymes. Includes curdled milk. Flavored renneted milk products are found in category 01.7.
01.3	Condensed milk and analogues (plain)	Includes plain and sweetened types of condensed milk, evaporated milk, and their analogues (including beverage whiteners). Includes products based on skim, part-skim, low-fat and whole milk, blends of evaporated skimmed milk and vegetable fat, and blends of sweetened condensed skimmed milk and vegetable fat.
01.3.1	Condensed milk (plain)	Condensed milk is obtained by partial removal of water from milk to which sugar may have been added. For evaporated milk, the water removal may be accomplished by heating. Includes partially dehydrated milk, evaporated milk, sweetened condensed milk, and khoa (cow or buffalo milk concentrated by boiling).
01.3.2	Beverage whiteners	Milk or cream substitute consisting of a vegetable fat-water emulsion in water with milk protein and lactose or vegetable proteins for use in beverages such as coffee and tea. Also includes the same type of products in Includes condensed milk analogues, blends of evaporated skimmed milk and vegetable fat and blends of sweetened condensed skimmed milk and vegetable fat.
01.4	Cream (plain) and the like	Cream is a fluid dairy product, relatively high in fat content in comparison to milk. Includes all plain fluid, semi-fluid and semi-solid cream and cream analogue products. Flavored cream products are found in 01.1.4 (beverages) and 01.7 (desserts).
01.4.1	Pasteurized cream (plain)	Cream subjected to pasteurization by appropriate heat treatment or made from pasteurized milk Includes milk cream and "half-and-half."
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat	Includes every cream, regardless of fat content, which has undergone a higher heat-treatment than pasteurization. Also includes pasteurized

	creams (plain)	creams with a reduced fat content, as well as every cream intended for whipping or being whipped. Sterilized cream is subjected to appropriate heat-treatment in the container in which it is presented to the consumer. Ultra-heat treated (UHT) or ultrapasteurized cream is subjected to the appropriate heat treatment (UHT or ultrapasteurization) in a continuous flow process and aseptically packaged. Cream may also be packaged under pressure (whipped cream). Includes whipping cream, heavy cream, whipped pasteurized cream, and whipped cream-type dairy toppings and fillings. Creams or toppings with partial or total replacement of milkfat by other fats are included in sub-category 01.4.4 (cream analogues).
01.4.3	Clotted cream (plain)	Thickened, viscous cream formed from the action of milk coagulating enzymes. Includes sour cream (cream subjected to lactic acid fermentation achieved as described for buttermilk (01.1.3)).
01.4.4	Cream analogues	Cream substitute consisting of a vegetable fat-water emulsion in liquid or powdered form for use other than as a beverage whitener (01.3.2). Includes instant whipped cream toppings and sour cream substitutes.
01.5	Milk powder and cream powder and powder analogues (plain)	Includes plain milk powders, cream powders, or combination of the two, and their analogues. Includes products based on skim, part-skim, low-fat and whole milk.
01.5.1	Milk powder and cream powder (plain)	Milk products obtained by partial removal of water from milk or cream and produced in a powdered form. Includes casein and caseinates.
01.5.2	Milk and cream powder analogues	Products based on a fat-water emulsion and dried for use other than as a beverage whitener (01.3.2). Examples include imitation dry cream mix and blends of skimmed milk and vegetable fat in powdered form.
01.6	Cheese and analogues	Cheese and cheese analogues are products that have water and fat included within a coagulated milkprotein structure. Products such as cheese sauce (12.6.2), cheese-flavored snacks (15.1), and composite prepared foods containing cheese as an ingredient (e.g.

		macaroni and cheese; 16.0) are categorized elsewhere.
01.6.1	Unripened cheese	Unripened cheese, including fresh cheese, is ready for consumption soon after manufacture. Examples include cottage cheese (a soft, unripened, coagulated curd cheese), creamed cottage cheese (cottage cheese covered with a creaming mixture), cream cheese (rahmfrischkase, an uncured, soft spreadable cheese), mozzarella and scamorza cheeses and paneer (milk protein coagulated by the addition of citric acid from lemon or lime juice or of lactic acid from whey, that is strained into a solid mass, and is used in vegetarian versions of, e.g. hamburgers). Includes the whole unripened cheese and unripened cheese rind. Most products are plain, however, some, such as cottage cheese and cream cheese, may be flavored or contain ingredients such as fruit, vegetables or meat. E.g. Ripened cream cheese, where cream is a qualifier for a high fat content.
01.6.2	Ripened cheese	Ripened cheese is not ready for consumption soon after manufacture, but is held under such time and temperature conditions so as to allow the necessary biochemical and physical changes that characterize the specific cheese. For mould-ripened cheese, the ripening is accomplished primarily by the development of characteristic mould growth throughout the interior and/or on the surface of the cheese. Ripened cheese may be soft (e.g. camembert), firm (e.g. edam, gouda), hard (e.g. cheddar), or extra-hard. Includes cheese in brine, which is a ripened semi-hard to soft cheese, white to yellowish in color with a compact texture, and without actual rind that has been preserved in brine until presented to the consumer.
01.6.2.1	Ripened cheese, includes rind	Refers to ripened (including mould-ripened) cheese, including rind, or any part thereof, such as cut, shredded, grated or sliced cheese. Examples of ripened cheese include: blue cheese, brie, gouda, havarti, hard grating cheese, and Swiss cheese.
01.6.2.2	Rind of ripened cheese	Refers to the rind only of the cheese. The rind of the cheese is the exterior portion of the cheese mass that initially has the same

		composition as the interior portion of the cheese, but which may dry after brining and ripening.
01.6.2.3	Cheese powder (for reconstitution; e.g. for cheese sauces)	Dehydrated product prepared from a variety of processed cheese. Does not include grated or shredded cheese (01.6.2.1 for variety cheese; 01.6.4 for processed cheese). Product is intended either to be reconstituted with milk or water to prepare a sauce, or used as-is as an ingredient (e.g. with cooked macaroni, milk and butter to prepare a macaroni and cheese casserole). Includes spray-dried cheese.
01.6.3	Whey cheese	A solid or semi-solid product obtained by concentration of whey with or without the addition of milk, cream or other materials of milk origin, and moulding of the concentrated product. Includes the whole cheese and the rind of the cheese. Different from whey protein cheese (01.6.6).
01.6.4	Processed cheese	Product with a very long shelf life obtained by melting and emulsifying cheese. Includes products manufactured by heating and emulsifying mixtures of cheese, milkfat, milk protein, milk powder, and water in different amounts. Products may contain other added ingredients, such as aromas, seasonings and fruit, vegetables and/or meat. Product may be spreadable or cut into slices and pieces. The term “processed” does not mean cutting, grating, shredding, etc. of cheese. Cheese treated by these mechanical processes
01.6.4.1	Plain processed cheese	Processed cheese product that does not contain added flavors, seasonings, fruit, vegetables and/or meat. Examples include: American cheese, requeson.
01.6.4.2	Flavored processed cheese, including containing fruit, vegetables, meat, etc.	Processed cheese product that contains added flavors, seasonings, fruit, vegetables and/or meat. Examples include: neufchatel cheese spread with vegetables, pepper jack cheese, cheddar cheese spread with wine, and cheese balls (formed processed cheese coated in nuts, herbs or spices).
01.6.5	Cheese analogues	Products that look like cheese, but in which milkfat has been partly or completely replaced by other fats. Includes imitation cheese, imitation cheese mixes, and imitation cheese

		powders.
01.6.6	Whey protein cheese	Product containing the protein extracted from the whey component of milk. These products are principally made by coagulation of whey proteins. Example: ricotta cheese. Different from whey cheese (01.6.3).
01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yoghurt)	Includes ready-to-eat flavored dairy dessert products and dessert mixes. Includes frozen dairy confections and novelties, and dairy-based fillings. Includes flavored yoghurt (a milk product obtained by fermentation of milk and milk products to which flavors and ingredients (e.g. fruit, cocoa, coffee) have been added) that may or may not be heat-treated after fermentation. Other examples include: ice cream (frozen dessert that may contain whole milk, skim milk products, cream or butter, sugar, vegetable oil, egg products, and fruit, cocoa, or coffee), ice milk (product similar to ice cream with reduced whole or skim milk content, or made with nonfat milk), jellied milk, frozen flavored yoghurt, junket (sweet custard-like dessert made from flavored milk set with rennet), dulce de leche (cooked milk with sugar and added ingredients such as coconut or chocolate), butterscotch pudding and chocolate mousse. Includes traditional milk-based sweets prepared from milk concentrated partially, from khoa (cow or buffalo milk concentrated by boiling), or chhena (cow or buffalo milk, heat coagulated aided by acids like citric acid, lactic acid, malic acid, etc), sugar or synthetic sweetener, and other ingredients (e.g. maida (refined wheat flour), flavors and colors (e.g. peda, burfee, milk cake, gulab jamun, rasgulla, rasmalai, basundi). These products are different from those in food category 03.0.
01.8	Whey and whey products, excluding whey cheeses	Includes a variety of whey-based products in liquid and powdered forms.
01.8.1	Liquid whey and whey products, excluding whey cheeses	Whey is the fluid separated from the curd after coagulation of milk, cream, skimmed milk or buttermilk with milk coagulating enzymes during the manufacture of cheese, casein or similar products. Acid whey is obtained after the coagulation of milk, cream, skimmed milk or buttermilk, mainly with acids of the type

		used for the manufacture of fresh cheese.
01.8.2	Dried whey and whey products, excluding whey cheeses	Whey powders are prepared by spray- or roller-drying whey or acid whey from which the major portion of the milkfat has been removed.
02.0	Fats and oils, and fat emulsions	Includes all fat-based products that are derived from vegetable, animal or marine sources, or their mixtures.
02.1	Fats and oils essentially free from water	Edible fats and oils are foods composed mainly of triglycerides of fatty acids from vegetable, animal or marine sources.
02.1.1	Butter oil, anhydrous milkfat, ghee	The milkfat products anhydrous milkfat, anhydrous butter oil and butter oil are products derived exclusively from milk and/or products obtained from milk by a process that almost completely removes water and non-fat solids. Ghee is a product obtained exclusively from milk, cream or butter by a process that almost completely removes water and non-fat solids; it has a specially developed flavor and physical structure.
02.1.2	Vegetable oils and fats	Edible fats and oils obtained from edible plant sources. Products may be from a single plant source or marketed and used as blended oils that are generally designated as edible, cooking, frying, table or salad oils. Virgin oils are obtained by mechanical means (e.g. pressing or expelling), with application of heat only so as not to alter the natural composition of the oil. Virgin oils are suitable for consumption in the natural state. Cold pressed oils are obtained by mechanical means without application of heat. Examples include: virgin olive oil, cottonseed oil, peanut oil, and vanaspati.
02.1.3	Lard, tallow, fish oil, and other animal fats	All animal fats and oils should be derived from animals in good health at the time of slaughter and intended for human consumption. Lard is fat rendered from the fatty tissue of swine. Edible beef fat is obtained from fresh bovine fatty tissue covering the abdominal cavity and surrounding the kidney and heart, and from other compact, undamaged fat tissues. Such fresh fat obtained at the time of slaughter is the "killing fat." Prime beef fat (premiere jus or oleo stock) is obtained by low-heat rendering

		(50-55oC) of killing fat and selected fat trimmings (cutting fat). Secunda beef fat is a product with typical beef fat odour and taste obtained by rendering (60-65oC) and purifying beef fat. Rendered pork fat is fat obtained from the tissue and bones of swine. Edible tallow (dripping) is produced by the rendering of fatty tissue (excluding trimmings and cutting fat), attached muscles and bones of bovine animals or sheep. Fish oils are derived from suitable sources such as herring, sardines, sprat, and anchovies. Other examples include: tallow and partially defatted beef or pork fatty tissue.
02.2	Fat emulsions mainly of type water-in-oil	Include all emulsified products excluding fat-based counterparts of dairy products and dairy desserts.
02.2.1	Butter	Butter is a fatty product consisting of a primarily water-in-oil emulsion derived exclusively from milk and/or products obtained from milk.
02.2.2	Fat spreads, dairy fat spreads and blended spreads	Includes fat spreads (emulsions principally of the type water and edible fats and oils), dairy fat spreads (emulsions principally of the type water-in-milkfat), and blended spreads (fat spreads blended with higher amounts of milkfat). Examples include margarine (a spreadable or fluid water-in-oil emulsion produced mainly from edible fats and oils); products derived from butter (e.g. “butterine,” a spreadable butter blend with vegetable oils) blends of butter and margarine; and minarine (a spreadable water-in-oil emulsion produced principally from water and edible fats and oils that are not solely derived from milk). Also includes reduced fat-based products derived from milkfat or from animal or vegetable fats, including reduced-fat counterparts of butter, margarine, and their mixtures (e.g. three-quarter fat butter, three-quarter fat margarine, or threequarter fat butter-margarine blends).
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavored products based on fat emulsions	Includes fat-based counterparts of dairy-based foods excluding dessert products. The fat portion of these products are derived from sources other than milkfat (e.g. vegetable fats and oils). Examples include: imitation milk (a fat-substituted milk produced from non-fat milk solids by addition of vegetable fats

		(coconut, safflower or corn oil)); non-dairy whipped cream; non-dairy toppings; and vegetable cream. Mayonnaise is included in food category 12.6.1.
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	Includes fat-based counterparts of dairy-based desserts, which are found in category 01.7. Includes ready-to-eat products and their mixes. Also includes non-dairy fillings for desserts. An example is an ice cream-like product made with vegetable fats.
03.0	Edible ices, including sherbet and sorbet	This category includes water-based frozen desserts, confections and novelties, such as fruit sorbet, “Italian”- style ice, and flavored ice. Frozen desserts containing primarily dairy ingredients are included in food category 01.7.
04.0	Fruits and vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe	This major category is divided into two categories: 04.1 (Fruit) and 04.2 (Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds). Each of these categories is further divided into sub-categories for fresh and processed products.
04.1	Fruit	Includes all fresh (04.1.1) and processed (04.1.2) products.
04.1.1	Fresh fruit	Fresh fruit is generally free of additives. However, fresh fruit that is coated or cut or peeled for presentation to the consumer may contain additives.
04.1.1.1	Untreated fresh fruit	Raw fruit presented fresh from harvest.
04.1.1.2	Surface-treated fresh fruit	The surfaces of certain fresh fruit are coated with glazes or waxes or are treated with other food additives that act as protective coatings and/or help to preserve the freshness and quality of the fruit. Examples include apples, oranges, dates, and longans.
04.1.1.3	Peeled or cut fresh fruit	Fresh fruit that is cut or peeled and presented to the consumer, e.g. in a fruit salad. Includes fresh shredded or flaked coconut.
04.1.2	Processed fruit	Includes all forms of processing other than peeling, cutting and surface treating fresh fruit.
04.1.2.1	Frozen fruit	Fruit that may be blanched prior to freezing. The product may be frozen in a juice or sugar. Examples include frozen fruit salad and frozen strawberries.

04.1.2.2	Dried fruit	Fruit from which water is removed to prevent microbial growth. Includes dried fruit leathers (fruit rolls) prepared by drying fruit purees. Examples include dried apple slices, raisins, dried shredded or flaked coconut, and prunes.
04.1.2.3	Fruit in vinegar, oil, or brine	Includes pickled products such as pickled plums, mango pickles, lime pickles, pickled gooseberries, and pickled watermelon rind. Oriental pickled (“cured” or “preserved”) fruit products are sometimes referred to as “candied” fruit. These are not the candied fruit products of category 04.1.2.7.
04.1.2.4	Canned or bottled (pasteurized) fruit	Fully preserved product in which fresh fruit is cleaned and placed in cans or jars with natural juice or sugar syrup (including artificially sweetened syrup) and heat-sterilized or pasteurized. Includes products processed in retort pouches. Examples include: canned fruit salad, and applesauce in jars.
04.1.2.5	Jams, jellies, marmelades	Jams, preserves and conserves are thick, spreadable products prepared by boiling whole fruit or pieces of fruit, fruit pulp or puree, with or without fruit juice or concentrated fruit juice, and sugar to thicken, and to which pectin and fruit pieces may be added. Jelly is a clear spreadable product prepared similarly to jam, except that it is has a smoother consistency and does not contain fruit pieces. Marmalade is a thick spreadable fruit slurry prepared from whole fruit, fruit pulp or puree (usually citrus), and boiled with sugar to thicken, to which pectin and fruit pieces and fruit peel pieces may be added. Includes dietetic counterparts made with non-nutritive high-intensity sweeteners. Examples include: orange marmalade, grape jelly, and strawberry jam.
04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	Includes all other fruit-based spreads, such as apple butter and lemon curd. Also includes condiment-type fruit products such as mango chutney and raisin chutney.
04.1.2.7	Candied fruit	Includes glazed fruits (fruit treated with a sugar solution and dried), candied fruit (dried glazed fruit immersed in a sugar solution and dried so that the fruit is covered by a candy-like sugar shell), and crystallized fruit is prepared (dried glazed fruit rolled in icing or

		granulated sugar and dried). Examples include: cocktail (maraschino) cherries, candied citrus peel, candied citrons (e.g. used in holiday fruitcakes), and mostarda di frutta.
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	Fruit pulp is not usually intended for direct consumption. It is a slurry of lightly steamed and strained fresh Fruit puree (e.g. mango puree, prune puree) is produced in the same way, but has a smoother, finer texture, and may be used as fillings for pastries, but is not limited to this use. Fruit sauce (e.g. pineapple sauce or strawberry sauce) is made from boiled fruit pulp with or without added sweeteners and may contain fruit pieces. Fruit sauce may be used as toppings for fine bakery wares and ice cream sundaes. Fruit syrup (e.g. blueberry syrup) is a more liquid form of fruit sauce that may be used as a topping e.g. for pancakes. Non-fruit toppings are included in category 05.4 (sugar- and chocolate-based toppings) and sugar syrups (e.g. maple syrup) are included in category 11.4. Coconut milk and coconut cream are products prepared using a significant amount of separated, whole, disintegrated macerated or comminuted fresh endosperm (kernel) of coconut palm and expelled, where most filterable fibers and residues are excluded, with or without coconut water, and/or with additional water. Coconut milk and coconut cream are treated by heat pasteurization, sterilization or ultrahigh temperature (UHT) processes. Coconut milk and coconut cream may also be produced in concentrated or skim (or “light”) forms. Examples of traditional foods in this sub-category are: tamarind concentrate (clean extract of tamarind fruit with not less than 65% total soluble solids), tamarind powder (tamarind paste mixed with tapioca starch), tamarind toffee (mixture of tamarind pulp, sugar, milk solids, antioxidants, flavors, stabilizers and preservatives), and fruit bars (a mixture of fruit (mango, pineapple, or guava) pulp mixed with sugar, flavors and preservatives, dried into a sheet).
04.1.2.9	Fruit-based desserts, incl. fruit-flavored water-based desserts	Includes the ready-to-eat products and mixes. Includes fruit-flavored gelatine, rote gruze, frutgroed, fruit compote, nata de coco, and

		mitsumame (gelatine-like dessert of agar jelly, fruit pieces and syrup). This category does not include fine bakery wares containing fruit (categories 07.2.1 and 07.2.2), fruit-flavored edible ices (category 03.0), or fruit-containing frozen dairy desserts (category 01.7).
04.1.2.10	Fermented fruit products	Type of pickled product produced by preservation in salt by lactic acid fermentation. Examples include: fermented plums.
04.1.2.11	Fruit fillings for pastries	Includes the ready-to-eat products and mixes. Includes all type of fillings excluding purees (category 04.1.2.8). These fillings usually include whole fruit or fruit pieces. Examples include: cherry pie filling and raisin filling for oatmeal cookies.
04.1.2.12	Cooked fruit	Fruit that is steamed, boiled, baked, or fried, with or without a coating, for presentation to the consumer. Examples include: baked apples, fried apple rings, and peach dumplings (baked peaches with a sweet dough covering).
04.2	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera),	Includes all fresh (04.2.1) and processed (04.2.2) products.
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	Fresh fruit is generally free of additives. However, fresh vegetables that are coated or cut or peeled for presentation to the consumer may contain additives.
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes (including soybeans), and aloe vera), seaweeds, and nuts and seeds	Raw vegetables presented fresh from harvest.
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	The surfaces of certain fresh vegetables are coated with glazes or waxes or are treated with other food additives that act as protective coatings and/or help to preserve the freshness and quality of the vegetable. Examples include: avocados, cucumbers, green peppers and pistachio nuts.
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots	Fresh vegetables, e.g. peeled raw potatoes, that are presented to the consumer to be cooked at home (e.g. in the preparation of hash brown

	and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	potatoes).
04.2.2	Processed vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	Includes all forms of processing other than peeling, cutting and surface treating fresh vegetables.
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	Fresh vegetables are usually blanched and frozen. Examples include: quick-frozen corn, quick-frozen French-fried potatoes, quick frozen peas, and quick frozen whole processed tomatoes.
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	Products in which the natural water content has been reduced below that critical for growth for microorganisms without affecting the important nutrients. The product may or may not be intended for Includes vegetable powders that are obtained from drying the juice, such as tomato powder and beet powder. Examples include: dried potato flakes and dried lentil. Examples of Oriental dried products include: dried sea tangle (kelp; kombu), dried sea tangle with seasoning (shiokombu), dried seaweed (tororo-kombu), dried gourd strips (kampyo), dried laver (nori), and dried laminariales (wakame).
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweeds in vinegar, oil, brine, or soybean sauce	Products prepared by treating raw vegetables with salt solution excluding fermented soybean products. Fermented vegetables, which are a type of pickled product, are classified in 04.2.2.7. Fermented soybean products are classified in 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3. Examples include: pickled cabbage, pickled cucumber, olives, pickled onions, mushrooms in oil, marinated artichoke hearts, achar, and piccalilli. Examples of Oriental-style pickled vegetables include: tsukemono such as rice bran pickled vegetables (nuka-zuke), koji-pickled vegetables (koji-zuke), sake lees-pickled vegetables (kasu-zuke), miso-pickled vegetables (miso-zuke), soybeansauce-pickled vegetables (shoyu-zuke), vinegar-pickled vegetables (suzuke) and brine-pickled vegetables (shio-zuke). Other examples include: pickled ginger, pickled garlic, and

		chilli pickles.
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots	Fully preserved product in which fresh vegetables are cleaned, blanched, and placed in cans or jars in liquid (e.g. brine, water, oil or sauce), and heat-sterilized or pasteurized. Examples include: canned chestnuts, canned chestnut puree, asparagus packed in glass jars, canned and cooked pink beans, canned tomato paste (low acid), and canned tomatoes (pieces, wedges or whole).
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g. peanut butter)	Vegetable purees are finely dispersed slurries prepared from the concentration of vegetables, which may have been previously heat-treated (e.g. steamed). The slurries may be filtered prior to packaging. Purees contain lower amounts of solids than pastes (found in category 04.2.2.6). Examples include: tomato puree, peanut butter (a spreadable paste made from roasted and ground peanuts by the addition of peanut oil), other nut butters (e.g. cashew butter), and pumpkin butter.
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	Vegetable pastes and pulps are prepared as described for vegetable purees (category 04.2.2.5). However, pastes and pulps have a higher amount of solids, and are usually used as components of other foods (e.g. sauces). Examples include: potato pulp, horseradish pulp, aloe extract, salsa (e.g. chopped tomato, onion, peppers, spices and herbs), sweet red bean paste (an), sweet coffee bean paste (filling), tomato paste, tomato pulp, tomato sauce, crystallized ginger, and bean-based vegetable dessert (namagashi).
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food category 06.8.6, 06.8.7,	Fermented vegetables are a type of pickled product, formed by the action of lactic acid bacteria, usually in the presence of salt. Traditional Oriental fermented vegetable products are prepared by air-drying vegetables and exposing them to ambient temperatures so as to allow the microorganisms to flourish; the vegetables are then sealed in an anaerobic environment and salt (to generate lactic acid), spices and seasonings are added. Examples include: red pepper paste, fermented vegetable products (some tsukemono other than category 04.2.2.3), kimchi (fermented Chinese cabbage and vegetable preparation), and sauerkraut

		(fermented cabbage). Excludes fermented soybean products that are found in food categories 06.8.6 (fermented soybeans (e.g. natto and tempe)), 06.8.7 (fermented soybean curd), 12.9.1 (fermented soybean paste e.g. miso), 12.9.2.1 (fermented soybean sauce), and 12.9.2.3 (other soybean sauce).
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweeds	Vegetables that are steamed, boiled, baked, or fried, with or without a coating, for presentation to the consumer. Examples include: simmered beans, pre-fried potatoes, fried okra, and vegetables boiled down in soy sauce (tsukudani).
05.0	Confectionery	Includes all cocoa and chocolate products (05.1), other confectionery products that may or may not contain cocoa (05.2), chewing gum (05.3), and decorations and icings (05.4)
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	This category is divided to reflect the variety of standardized and non-standardized cocoa- and chocolate-based products.
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	Includes a variety of products that are used in the manufacture of other chocolate products or in the preparation of cocoa-based beverages. Most cocoa products have their origin in the cocoa nib, which is obtained from cocoa beans that have been cleaned and freed from the shells. Cocoa mass is obtained from the mechanical disintegration of the nib. Depending on the desired finished chocolate product, the cocoa nib or mass may be treated by an alkalization process that mellows the flavor. Cocoa dust is the fraction of the cocoa bean produced as a product during winnowing and degerming. Cocoa powder is produced by reducing the fat content of cocoa mass or liquor by pressing (including expeller pressing) and molding into a cocoa press cake. The cocoa press cake is disintegrated and ground to cocoa powder. Cocoa liquor is a homogeneous flowing paste produced from the cocoa nib, which has been roasted, dried, disintegrated and milled. Cocoa-sugar mixtures contain only cocoa powder and sugar. Chocolate powder for beverages is made from cocoa liquor or cocoa powder and sugar to which flavoring (e.g. vanillin) may be added. Examples include: drinking chocolate powder;

		breakfast cocoa; cocoa dust (fines), nibs, mass, press cake; chocolate liquor; cocoa mixes (powders for preparing the hot beverage); cocoa-sugar mixture; and dry mixes for sugar-cocoa confectionery. Finished cocoa beverages and chocolate milk are included in category 01.1.4, and most finished chocolate products are included in category 05.1.4.
05.1.2	Cocoa mixes (syrops)	Products that may be produced by adding a bacterial amylase to cocoa liquor. The enzyme prevents the syrup from thickening or setting by solubilizing and dextrinizing cocoa starch. Includes products such as chocolate syrup used to prepare chocolate milk or hot chocolate. Chocolate syrup differs from fudge sauce (e.g., for ice cream sundaes), which is found in category 05.4.
05.1.3	Cocoa-based spreads, including fillings	Products in which cocoa is mixed with other ingredients (usually fat-based) to prepare a spreadable paste that is used as a spread for bread or as a filling for fine bakery wares. Examples include: cocoa butter, fillings for bonbons and chocolates, chocolate pie filling, and nut-chocolate based spreads for bread (Nutellatype product).
05.1.4	Cocoa and chocolate products	Chocolate is produced from cocoa nibs, mass, press cake, powder, or liquor with or without addition of sugar, cocoa butter, aroma or flavoring substances, and optional ingredients (e.g. nuts). Includes chocolate-covered nuts and fruit (e.g. raisins), excluding yoghurt-, cereal-, and honey-covered nuts (category 15.2). Examples include: bonbons, cocoa butter confectionery (composed of cocoa butter, milk solids and sugar), white chocolate, chocolate chips (e.g. for baking), milk chocolate, cream chocolate, sweet chocolate, bitter chocolate, enrobing chocolate, chocolate covered in a sugar-based “shell” or with colored decorations, filled chocolate (chocolate with a texturally distinct center and external coating, excluding flour confectionery and pastry products of categories 07.2.1 and 07.2.2) and composite chocolate (chocolate with added edible substances excluding flour starch and fat, unless expressly permitted).
05.1.5	Imitation chocolate, chocolate	Includes chocolate-like products that may or

	substitute products	may not be cocoa-based, but have similar organoleptic properties as chocolate. E.g. carob chips.
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3, and 05.4	Includes all types of products that primarily contain sugar and analogues and their dietetic counterparts manufactured with nutritive or non-nutritive high-intensity sweeteners. Includes hard candy (05.2.1), soft candy (05.2.2), and nougats and marzipans (05.2.3).
05.2.1	Hard candy	Products made from water and sugar (simple syrup), color and flavor that may or may not have a filling. Includes: pastilles and lozenges (rolled, shaped and filled sugar-based candy).
05.2.2	Soft candy	Products include soft, chewy sugar-based products such as caramels (containing sugar syrup, fats, color and flavor); jelly-based candies (e.g., jelly beans, jellied fruit paste covered in sugar, made from sugar, gelatine, pectin, color and flavor); and licorice. Also included are Oriental specialties, such as sweet bean jelly (yokan) and agar jelly for mitsumame.
05.2.3	Nougats and marzipans	Nougats consist of roasted ground nuts, sugar, cocoa that may be consumed as is, or may be used as a filling for chocolate products. Marzipan is a confection consisting of almond paste and sugar that may be shaped and colored for direct consumption, or may be used as a filling for chocolate products.
05.3	Chewing gum	Product made from natural or synthetic gum base containing flavors, sweeteners (nutritive or non-nutritive), aroma compounds, and other additives. Includes bubble gum and breath-freshener gum products.
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	Includes ready-to-eat icings and frostings for cakes, cookies, pies and bread and flour confectionery, as well as mixes for these products. Also includes sugar- and chocolate-based coatings for candy, confections and baked goods, such as chocolate coatings for bonbons and nougat candy, and sugar coatings for pastilles. Sweet sauces and toppings include butterscotch sauce for use, e.g., on ice cream sundaes. These sweet sauces are different than the syrups (e.g., maple, caramel, and flavored syrups for fine bakery wares ices)

		included in category 11.4. Fruit-based toppings are included in 04.1.2.8. Chocolate sauce is included in 05.1.2.
06.0	Cereals and cereal products derived from cereal grains, roots and tubers, pulses and legumes, excluding bakery wares of food category 07.0	Includes unprocessed (06.1) and various processed forms of cereal and cereal-based products.
06.1	Whole, broken, or flaked grain, including rice	Includes whole, husked, unprocessed cereals and grains. Examples include: barley, corn (maize), hops (for beer manufacture), oats, rice (including enriched, instant and parboiled), sorghum, soybeans, and wheat.
06.2	Flours and starches (including soybean powder)	The basic milled products of cereal grains, roots, tubers, pulses or legumes sold as such or used as ingredients (e.g., in baked goods).
06.2.1	Flours	Flour is produced from the milling of grain, cereals and tubers (e.g., cassava). Includes flour pastes for bread and flour confectionery, flour for bread, pastries, noodles and pasta, and flour mixes (physical mixtures of flours from different cereal or grain sources, which are different from mixes for bakery goods (dry mixes containing flour and other ingredients, categories 07.1.6 (mixes for ordinary bakery wares) and 07.2.3 (mixes Examples include: durum wheat flour, self-rising flour, enriched flour, instantized flour, corn flour, corn meal, bran, farina, roasted soybean flour (kinako), konjac flour (devil's tongue jelly powder, konnayaku-ko), and maida (refined wheat flour)).
06.2.2	Starches	Starch is a glucose polymer occurring in granular form in certain plant species, notably seeds (e.g., cereals, pulses, corn, wheat, rice, beans, peas) and tubers (e.g., tapioca, potato). The polymer consists of linked anhydro-alpha-D-glucose units. Native starch is separated by processes that are specific for each raw material.
06.3	Breakfast cereals, including rolled oats	Includes all ready-to-eat, instant, and regular hot breakfast cereal products. Examples include: granola-type breakfast cereals, instant oatmeal, farina, corn flakes, puffed wheat or rice, multi-grain (e.g., rice, wheat and corn) breakfast cereals, breakfast cereals made from

		soy or bran, and extruded-type breakfast cereals made from grain flour or powder.
06.4	Pastas and noodles and like products (e.g. rice paper, rice vermicelli, soybean pastas and noodles)	This food category was revised, with the understanding that there would be few, if any additives needed in pastas and noodles. Includes all pasta, noodle, and similar products.
06.4.1	Fresh pastas and noodles and like products	Products that are untreated (i.e., not heated, boiled, steamed, cooked, pre-gelatinized or frozen) and are not dehydrated. These products are intended to be consumed soon after preparation. Examples include: unboiled noodles, and “skins” or crusts for spring rolls, “wontons”, and “shuo mai”.
06.4.2	Dried pastas and noodles and like products	Products that are untreated (i.e., not heated, boiled, steamed, cooked, pre-gelatinized or frozen) and are not dehydrated. Examples include dried forms of: spaghetti, bean vermicelli, rice vermicelli, macaroni, and rice noodles.
06.4.3	Pre-cooked pastas and noodles and like products	Products that are untreated (i.e., heated, boiled, steamed, cooked, pre-gelatinized or frozen). These products may be sold directly to the consumer (e.g., pre-cooked, chilled gnocchi or be heated prior to consumption), or may be the starch component of prepared meals (e.g., heat-and-serve frozen dinner entrees containing spaghetti, macaroni or noodles; canned spaghetti and meatballs entrée). Also includes instant noodles (sokuseki-men; e.g., pre-cooked ramen, udon, rice noodles), that are pre-gelatinized, heated and dried prior to sale to the consumer.
06.5	Cereal and starch based desserts (e.g. rice pudding, tapioca pudding)	Dessert products containing cereal, starch or grain as the main ingredient. Also includes cereal- or starch based fillings for desserts. Examples include: rice pudding, semolina pudding, tapioca pudding, rice flour dumplings (dango), a steamed yeast-fermented wheat flour dough dessert (musipan), and a starchy pudding based dessert (namagashi).
06.6	Batters (e.g. for breading or batters for fish or poultry)	Products containing flaked or ground cereal or grain that when combined with other ingredients (e.g., egg, water, milk) are used as a coating for fish or poultry. Products are usually sold as dry mix of the cereal or grain

		component. Examples include breadings for tempura batter. Doughs (e.g., for bread) are found in 07.1.4, and other mixes (e.g., for bread or cakes) are found in 07.1.6 and 07.2.3, respectively.
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	Products prepared from rice that is soaked, drained, steamed, kneaded and shaped into cake forms (e.g. Japanese mocha, Korean teuck). Crisp snacks made from rice grains, also called “rice cakes” are categorized in 15.1, and dessert-type rice cakes are in 06.5. Category 06.7 would also include processed rice and enriched rice products, such as pre-cooked products that are sold canned, chilled or frozen; and processed rice products sold in retort pouches. This is to distinguish from category 06.1 (Whole, broken, or flaked grain, including rice) that is intended to include only whole, husked, unprocessed cereals and grains.
06.8	Soybean products (excluding soybean-based seasonings and condiments of food category 12.9)	Includes dried, cooked, fried or fermented soybean products, and soybean curd products.
06.8.1	Soybean-based beverages	Products prepared from dried soybeans that are soaked in water, pureed, boiled and strained, or prepared from soybean flour, soybean concentrate, or soybean isolate. In a number of countries this category includes products referred to as soybean milk. Soybean-based beverages may be consumed as is, or used to prepare other soybean products, such as those in food categories 06.8.2 (soybean-based beverage film), 06.8.3 (soybean curd (tofu)), 06.8.4 (semi-dehydrated soybean curd), and 06.8.5 (dehydrated soybean curd (kori tofu)). Also includes soybean products, such as soybean-based beverage powder, which is sold as is, for reconstitution, or as a mix containing a coagulant that can be reconstituted by the consumer for preparation of home-made soft tofu.
06.8.2	Soybean-based beverage film	Film formed on the surface of boiling soybean-based beverage that is dried. It may be deep-fried or softened. Also known as fuzhu or yuba.
06.8.3	Soybean curd (tofu)	Soybean curd is prepared from dried soybeans that are soaked in water, pureed, and strained

		to produce soybean-based beverage, which is then made into a curd with a coagulant, and placed in a mould. Soybean curds may be of a variety of textures (e.g., soft, semi-firm, firm).
06.8.4	Semi-dehydrated soybean curd	Soybean curd that has been pressed while being moulded into blocks so that some moisture has been removed, but so that it is not completely dried (see food category 06.8.5). Semi-dehydrated soybean curd typically contains 62% water, and has a chewy texture.
06.8.4.1	Thick gravy-stewed semi-dehydrated soybean curd	Partially dehydrated soybean curd that is cooked (stewed) with a thick sauce (e.g., miso sauce). The partially dehydrated soybean curd typically absorbs the sauce, and so regains its original texture.
06.8.4.2	Deep fried semi-dehydrated soybean curd	Partially dehydrated soybean curd that is deep-fried. It may be consumed as such, or cooked (e.g., stewed in sauce) after frying.
06.8.4.3	Semi-dehydrated soybean curd, other than food categories 06.8.4.1 and 06.8.4.2	Partially dehydrated soybean curd prepared other than by stewing in thick (e.g., miso) sauce or by deepfrying. Includes grilled products and mashed products that may be combined with other ingredients (e.g., to make a patty or a loaf).
06.8.5	Dehydrated soybean curd (kori tofu)	Soybean curd from which all moisture has been removed through the process of freezing, aging, and dehydrating. It may be reconstituted with water or sauce for consumption, or is used directly in prepared dishes. It may also be deep-fried or simmered in sauce.
06.8.6	Fermented soybeans (e.g., natto, tempe)	The product is prepared from soybeans that have been steamed and fermented with certain fungi or bacteria (starter). The soft, whole beans have a distinctive aroma and taste. It includes products such as dou chi (China), natto (Japan), and tempe (Indonesia).
06.8.7	Fermented soybean curd	The product is prepared by forming soybean curd into a loaf during the fermentation process. It is a soft, flavored product, either in red, rice-yellow, or grey-green.
06.8.8	Other soybean protein products	Other products from soybeans composed mainly of soybean protein such as extruded, textured, concentrated, and isolated soybean protein.

07.0	Bakery wares	Includes categories for bread and ordinary bakery wares (07.1) and for sweet, salty and savoury fine bakery wares (07.2).
07.1	Bread and ordinary bakery wares and mixes	Includes all types of non-sweet bakery products and bread-derived products.
07.1.1	Breads and rolls	Includes yeast-leavened and specialty breads and soda bread.
07.1.1.1	Yeast-leavened breads and specialty breads	Includes all types of non-sweet bakery products and bread-derived products. Examples include: white bread, rye bread, pumpernickel bread, raisin bread, whole wheat bread, pain courant francais, malt bread, hamburger rolls, whole wheat rolls, and milk rolls.
07.1.1.2	Soda breads	Includes soda breads.
07.1.2	Crackers, excluding sweet crackers	The term “cracker” refers to a thin, crisp wafer, usually of unsweetened dough. Flavored crackers (e.g. cheese flavored) that are consumed as snacks are in 15.1. Examples include: soda crackers, rye crisps, and matzohs.
07.1.3	Other ordinary bakery products (e.g. bagels, pita, English muffins)	Includes all other ordinary bakery wares, such as cornbread and biscuits. The term “biscuit” in this category refers to a small cake of shortened bread, leavened with baking powder or baking soda. It does not refer to the British “biscuit,” which is a “cookie” or “sweet cracker” included in category 07.2.1.
07.1.4	Bread-type products, including bread stuffing and bread crumbs	Includes bread-based products such as croutons, bread stuffing and stuffing mixes, and prepared doughs (e.g. for biscuits). Bread mixes are included in category 07.1.6.
07.1.5	Steamed breads and buns	Oriental-style leavened wheat or rice products that are cooked in a steamer. Products may be made with or without filling. In China, products without filling are called steamed bread (mantou), and those with filling are called steamed buns (<i>baozi</i> or <i>bao</i>). Twisted rolls of various shapes (<i>huajuan</i>) may also be prepared. Examples include: filled dumplings and steamed bun with meat, jam or other filling (<i>manjyu</i>).
07.1.6	Mixes for bread and ordinary bakery wares	Includes all the mixes containing the dry ingredients to which wet ingredients (e.g.

		water, milk, oil, butter, eggs) are added to prepare a dough for baked goods from food categories 07.1.1 to 07.1.5. Examples include: French bread mix, tin bread mix, panettone mix, ciabatta mix, among others. Mixes for fine bakery wares (e.g. cakes, cookies, pancakes) are found in category 07.2.3.
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	Includes sub-categories for ready-to-eat products (07.2.1 and 07.2.2) as well as mixes (07.2.3) for preparing fine baked goods.
07.2.1	Cakes, cookies and pies (e.g. fruit-filled or custard types)	The term “sweet cracker” or “sweet biscuit” used in this category refers to a cookie-like product that may be eaten as a dessert. Examples include: butter cake, cheesecake, fruit-filled cereal bars, pound cake (including kasutera), moist cake (type of starchy dessert (namagashi)), western cakes, moon cakes, sponge cake, fruit-filled pies (e.g. apple pie), oatmeal cookies, sugar cookies and British “biscuits” (cookies or sweet crackers).
07.2.2	Other fine bakery products (e.g. doughnuts, sweet rolls, scones, and muffins)	Includes products that may be eaten as a dessert or as breakfast. Examples include: pancakes, waffles, filled sweet buns (anpan), Danish pastry, wafers or cones for ice cream, flour confectionery, and trifles.
07.2.3	Mixes for fine bakery wares (e.g. cakes, pancakes)	Mixes containing the dry ingredients to which wet ingredients (e.g. water, milk, oil, butter, eggs) are added to prepare a dough for fine baked goods. Examples include: cake mix, flour confectionery mix, pancake mix, pie mix, and waffle mix. Prepared dough is found in category 07.1.4. Mixes for ordinary bakery wares (e.g. bread) is found in category 07.1.6.
08.0	Meat and meat products, including poultry and game	This category includes all types of meat, poultry, and game products, in pieces and cuts or comminuted, fresh (08.1) and processed (08.2 and 08.3).
08.1	Fresh meat, poultry and game	Fresh products are usually free of additives. However, in certain circumstances, additives are necessary. For example, colors are used for certification stamps on the surfaces of fresh cuts of meat, and are indicated in the Food Category System with a notation for “stamping, marking or branding the product.” Additionally, coatings, such as glazes and spice rubs, may be applied to meat products

		prior to marketing to the consumer (e.g. glazed ham, and barbecued chicken). In the Food Category System, this is indicated with a notation for “use as a glaze or coating (surface treatment).” It should be noted that the coatings marketed per se are included in food categories 04.1.2.8 (fruit-based glazes, e.g. for ham) and 12.2 (spice rubs).
08.1.1	Fresh meat, poultry and game, whole pieces or cuts	Untreated raw meat, poultry and game carcasses and cuts. Examples include: beef, hog and pork carcasses; fresh beef blood; fresh whole chickens and chicken parts; fresh beef cuts (e.g. steaks); beef organs (e.g. heart, kidney); fresh tripe; and pork chops.
08.1.2	Fresh meat, poultry and game, comminuted	Untreated raw comminuted or mechanically deboned meat, poultry and game. Examples include: fresh beef (hamburger) patties; boerewors; fresh breakfast sausages; gehakt (chopped meat); loganiza (fresh, uncured sausage); fresh meatballs; mechanically deboned, ground and formed poultry pieces (with or without breading or coating); and fresh sausages (e.g. beef, Italian, and pork).
08.2	Processed meat, poultry, and game products in whole pieces or cuts	Includes various treatments for non-heat treated meat cuts (08.2.1) and heat-treated meat cuts (08.3.2).
08.2.1	Non-heat treated processed meat, poultry and game products in whole pieces or cuts	This category describes several treatment methods (e.g. curing, salting, drying, pickling) that preserve and extend the shelf life of meats.
08.2.1.1	Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts	Salted products are treated with sodium chloride. Dry cured (dry pickled) products are prepared by rubbing salt directly on the meat surface. Wet pickle cured products are prepared by submerging the meat in a brine solution. Pump cured products are prepared by injecting brine into the meat. Curing may also be achieved by addition of additives. Smoked products are also included here. Examples include: bacon (cured, dry-cured (cured, dry-cured, immersion-cured, pump-cured); side bacon; corned beef; marinated beef; and different types of Oriental pickled products: miso-pickled meat (<i>miso-zuke</i>), koji-pickled meat (<i>koji-zuke</i>), and soy sauce-pickled meat (<i>shoyu-zuke</i>).

08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	The meat cuts may be cured or salted as described for category 08.2.1.1, and then dried, or they may only be dried. Drying is achieved either in hot air or in vacuum. Examples include: dried salt pork, dehydrated meat, stuffed loin, Iberian ham, and prosciutto-type ham.
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts	Fermented products are a type of pickled product produced by the action of lactic acid bacteria in the presence of salt. Examples include: potted beef and pickled (fermented) pig's feet.
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	Includes cooked (including cured and cooked, and dried and cooked), heat-treated (including sterilized) and canned meat cuts. Examples include: cured, cooked ham; cured, cooked pork shoulder; canned chicken meat; and meat pieces boiled in soy sauce (<i>tsukudani</i>).
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	Includes raw and cooked meat cuts that have been frozen. Examples include: frozen whole chickens, frozen chicken parts, and frozen beef steaks.
08.3	Processed comminuted meat, poultry, and game products	Includes various treatments for non-heat treated products (08.3.1) and heat-treated products (08.3.2).
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	This category describes several treatment methods (e.g. curing, salting, drying, pickling) that preserve and extend the shelf life of comminuted and mechanically deboned meat products.
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	Salted products are treated with sodium chloride. Dry cured (dry pickled) products are prepared by rubbing salt directly on the meat surface. Wet pickle cured products are prepared by submerging the meat in a brine solution. Pump cured products are prepared by injecting brine into the meat. Curing may also be achieved by addition of additives. Curing may also be achieved by addition of additives. Examples include: chorizos (spicy pork sausages), salami-type products, salchichon, tocino (fresh, cured sausage), pepperoni, and smoked sausage.
08.3.1.2	Cured (including salted) and dried non-heat treated	The comminuted or mechanically deboned products may be cured or salted as described

	processed comminuted meat, poultry, and game	for category 08.3.1.1, and then dried, or they may only be dried. Drying is achieved either in hot air or in vacuum. Examples include: pasturmas, dried sausages, cured and dried sausages, beef jerky, Chinese sausages (including traditional cured or smoked pork sausage), and sobrasada.
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	Fermented products are a type of pickled product produced by the action of lactic acid bacteria in the presence of salt. Certain types of sausages may be fermented.
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	Includes cooked (including cured and cooked, and dried and cooked), heat-treated (including sterilized) and canned comminuted products. Examples include: pre-grilled beef patties; foie gras and pates; brawn and head cheese; cooked, cured chopped meat; chopped meat boiled in soy sauce (tsukudani); canned corned beef; luncheon meats; meat pastes; cooked meat patties; cooked salami-type products; cooked meatballs; saucises de strasbourg; breakfast sausages; brown-and-serve sausages; and terrines (a cooked chopped meat mixture).
08.3.3	Frozen processed comminuted meat, poultry, and game products	Includes raw, partially cooked and fully cooked comminuted or mechanically deboned meat products that have been frozen. Examples include: frozen hamburger patties; frozen breaded or battered chicken fingers.
08.4	Edible casings (e.g., sausage casings)	Casings or tubing prepared from collagen, cellulose, or food-grade synthetic material or from natural sources (e.g. hog or sheep intestines) that contain the sausage mix.
09.0	Fish and fish products, including molluscs, crustaceans, and echinoderms	This broad category is divided into categories for fresh fish (09.1) and various processed fish products (09.2 – 09.4). This category includes aquatic vertebrates (fish and aquatic mammals (e.g., whales)), aquatic invertebrates (e.g., jellyfish), as well as molluscs (e.g., clams, snails), crustaceans (e.g., shrimp, crab, lobster), and echinoderms (e.g., sea urchins, sea cucumbers). Fish products may be treated with coatings, such as glazes and spice rubs, prior to marketing to the consumer (e.g., glazed frozen fish fillets). In the FCS, this is indicated with a notation for “use as a glaze or coating (surface treatment).”

09.1	Fresh fish and fish products, including molluscs, crustaceans, and echinoderms	The term “fresh” refers to fish and fish products that are untreated except for refrigeration, storage on ice, or freezing upon catching at sea or in lakes or other bodies of water in order to prevent decomposition and spoilage.
09.1.1	Fresh fish	Includes fresh whale meat, cod, salmon, trout, etc.; and fresh fish roe.
09.1.2	Fresh molluscs, crustaceans and echinoderms	Includes fresh shrimp, clams, crabs, lobster, snails, etc.
09.2	Processed fish and fish products, including molluscs, crustaceans, and echinoderms	This category refers to fish products that are frozen and may require further cooking, as well as ready-to-eat cooked, smoked, dried, fermented, and salted products.
09.2.1	Frozen fish, fish fillets, and fish products, including molluscs, crustaceans, and echinoderms	Fresh, including partially cooked, fish subjected to freezing or quick-freezing at sea and on land for further processing. Examples include: frozen or deep frozen clams, cod fillets, crab, finfish, haddock, hake, lobster, minced fish, prawns and shrimp; frozen fish roe; frozen surimi; and frozen whale meat.
09.2.2	Frozen battered fish, fish fillets and fish products, including molluscs, crustaceans, and echinoderms	Uncooked product prepared from fish or fish portions, with dressing in eggs and bread crumbs or batter. Examples include: frozen raw breaded or batter-coated shrimp; and frozen or quick-frozen breaded or batter-coated fish fillets, fish portions and fish sticks (fish fingers).
09.2.3	Frozen minced and creamed fish products, including molluscs, crustaceans, and echinoderms	Uncooked product prepared from minced fish pieces in cream-type sauce.
09.2.4	Cooked and/or fried fish and fish products, including molluscs, crustaceans, and echinoderms	Includes all ready-to-eat cooked products as described in the sub-categories.
09.2.4.1	Cooked fish and fish products	Cooked products include steamed, boiled or any other cooking method except frying (see 09.2.4.3). The fish may be whole, in portions or comminuted. Examples include: fish sausage; cooked fish products boiled down in soy sauce (<i>tsukudani</i>); cooked surimi product (<i>kamaboko</i>); crab-flavored cooked kamaboko product (<i>kanikama</i>); cooked fish roe; cooked

		surimi; cooked, tube-shaped surimi product (<i>chikuwa</i>); and cooked fish and lobster paste (surimi-like products. Other fish paste (<i>Oriental type</i>) is found in 09.3.4.
09.2.4.2	Cooked molluscs, crustaceans, and echinoderms	Cooked products include steamed, boiled or any other cooking method except frying (see 09.2.4.3). Examples include: cooked crangon crangon and crangon vulgaris (brown shrimp; cooked shrimp, clams and crabs.
09.2.4.3	Fried fish and fish products, including molluscs, crustaceans, and echinoderms	Ready-to-eat products prepared from fish or fish portions, with or without further dressing in eggs and bread crumbs or batter, that are fried, baked, roasted or barbecued, and then packaged or canned with or without sauce or oil. Examples include: ready-to-eat fried surimi, fried calamari, and fried soft-shell crabs.
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including molluscs, crustaceans, and echinoderms	Smoked fish are usually prepared from fresh deep frozen or frozen fish that are dried directly or after boiling, with or without salting, by exposing the fish to freshly-generated sawdust smoke. Dried fish are prepared by exposing the fish to sunlight or drying directly or after boiling in a special installation; the fish may be salted Salted fish are either rubbed with salt or placed in a salt solution. This manufacturing process is different from that described in food category 09.3 for marinated and pickled fish. Cured fish is prepared by salting and then smoking fish. Examples include: salted anchovies, shrimp, and shad; smoked chub, cuttlefish and octopus; fish ham; dried and salted species of the Gadidae species; smoked or salted fish paste and fish roe; cured and smoked sablefish, shad, and salmon; dried shellfish, dried bonito (<i>katsuobushi</i>), and boiled, dried fish (<i>niboshi</i>).
09.3	Semi-preserved fish and fish products, including molluscs, crustaceans, and echinoderms	Includes products treated by methods such as marinating, pickling and partial cooking that have a limited shelf life.
09.3.1	Fish and fish products, including molluscs, crustaceans, and echinoderms, marinated and/or in jelly	Marinated products are manufactured by soaking the fish in vinegar or wine with or without added salt and spices. They are packaged in jars or cans and have a limited shelf life. Products in jelly may be manufactured by tenderizing fish products by

		cooking or steaming, adding vinegar or wine, salt and preservatives, and solidifying in a jelly. Examples include: “rollmops” (a type of marinated herring), sea eel (dogfish) in jelly and fish aspic.
09.3.2	Fish and fish products, including molluscs, crustaceans, and echinoderms, marinated and/or in jelly	Pickled products are sometimes considered a type of marinated product. Pickling results from the treatment of the fish with a salt and vinegar or alcohol (e.g., wine) solution. Examples include: different types of Oriental pickled products: koji-pickled fish (<i>koji-zuke</i>), lees-pickled fish (<i>kasu-zuke</i>), miso-pickled fish (<i>miso-zuke</i>), soy sauce-pickled fish (<i>shoyu-zuke</i>), and vinegar-pickled fish (<i>su-zuke</i>); pickled whale meat; and pickled herring and sprat.
09.3.3	Salmon substitutes, caviar, and other fish roe products	Roe is usually produced by washing, salting and allowing to ripen until transparent. The roe is then packaged in glass or other suitable containers. The term “caviar” refers only to the roe of the sturgeon species (e.g., beluga). Caviar substitutes are made of roe of various sea and freshwater fish (e.g., cod and herring) that are salted, spiced, dyed and may be treated with a preservative. Examples include: salted salmon roe (<i>sujiko</i>), processed, salted salmon roe (<i>ikura</i>), cod roe, salted cod roe (<i>tarako</i>) and lumpfish caviar. Occasionally, roe may be pasteurized. In this case, it is included in food category 09.4, since it is a fully preserved product. Roe products that are frozen, cooked or smoked are included in category 09.2.1, 09.2.4.1, and 09.2.5, respectively; fresh fish roe is found in category 09.1.1.
09.3.4	Semi-preserved fish and fish products, including molluscs, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 – 0.9.3	Examples include fish or crustacean pates and traditional Oriental fish paste. The latter is produced from fresh fish or the residue from fish sauce production, which is combined with other ingredients such as wheat. The product may be further fermented. Cooked fish or crustacean pastes (<i>surimi</i> -like products) are found in 09.2.4.1 and 09.2.4.2, respectively.
09.4	Fully preserved, including canned or fermented fish and fish products, including molluscs, crustaceans, and echinoderms	Products with extended shelf life, manufactured by pasteurizing or steam retorting and packaging in vacuumsealed air-tight containers to ensure sterility. Products may be packed in their own juice or in added

		oil or sauce. This category excludes fully cooked products (see category 09.2.4). Examples include: canned tuna, clams, crab, fish roe and sardines; gefilte fish balls; and surimi (heat-pasteurized).
10.0	Eggs and egg products	Includes fresh in-shell eggs (10.1), products that may substitute for fresh eggs (10.2) and other egg products (10.3 and 10.4).
10.1	Fresh eggs	Fresh in-shell eggs are not expected to contain additives. However, colors may be used for decorating, dyeing or stamping the exterior surfaces of shell eggs. In the FCS, a notation for "for decoration, stamping, marking or branding the product (surface treatment) accommodates this.
10.2	Egg products	Products that may be used as replacement for fresh eggs in recipes or as a food (e.g., omelette). They are produced from fresh eggs by either (i) mixing and purifying the whole egg; or (ii) separating the egg white and yolk, and then mixing and purifying each separately. The purified whole egg, white or yolk is then further processed to produce liquid, frozen or dried eggs as described below.
10.2.1	Liquid egg products	The purified whole egg, egg yolk or egg white is pasteurized and chemically preserved (e.g., by addition of salt).
10.2.2	Frozen egg products	The purified whole egg, egg yolk or egg white is pasteurized and frozen.
10.2.3	Dried and/or heat coagulated egg products	Sugars are removed from the purified whole egg, egg yolk or egg white, which is then pasteurized and dried.
10.3	Preserved eggs, including alkaline, salted, and canned eggs	Includes traditional Oriental preserved products, such as salt-cured duck eggs (Hueidan), and alkaline treated "thousand-year-old-eggs" (pidan).
10.4	Egg-based desserts (e.g., custard)	Includes ready-to-eat products and products to be prepared from a dry mix. Examples include: flan and egg custard. Also includes custard fillings for fine bakery wares (e.g., pies).
11.0	Sweeteners, including honey	Includes all standardized sugars (11.1), non-standardized products (e.g., 11.2, 11.3, 11.4 and 11.6), and natural sweeteners (11.5 – honey).

11.1	Refined and raw sugars	Nutritive sweeteners, such as fully or partially purified sucrose (derived from sugar beet and sugar cane), glucose (derived from starch), or fructose, that are included in sub-categories 11.1.1 to 11.1.5.
11.1.1	White sugar, dextrose anhydrous, dextrose monohydrate, fructose	White sugar is purified and crystallized sucrose with a polarisation of not less than 99.7°Z. Dextrose anhydrous is purified and crystallized D-glucose without water of crystallization. Dextrose monohydrate is purified and crystallized D-glucose with one molecule of water of crystallization. Fructose is purified and crystallized D-fructose.
11.1.2	Powdered sugar, powdered dextrose	Powdered sugar (icing sugar) is finely pulverized white sugar with or without added anticaking agents. Powdered dextrose (icing dextrose) is finely pulverized dextrose anhydrous or dextrose monohydrate, or a mixture of the two, with or without added anticaking agents.
11.1.3	Soft white sugar, soft brown sugar, glucose syrup, dried glucose syrup, raw cane sugar	Soft white sugar is fine grain purified, moist sugar, that is white in color. Soft brown sugar is fine grain moist sugar that is light to dark brown in color. Glucose syrup is a purified concentrated aqueous solution of nutritive saccharides derived from starch and/or inulin. Dried glucose syrup is glucose syrup from which water has been partially removed. Raw cane sugar is partially purified sucrose crystallized from partially purified cane juice without further purification.
11.1.3.1	Dried glucose syrup used to manufacture sugar confectionery	Dried glucose syrup, as described in 11.1.3, used to manufacture candy products that are included in food category 05.2 (e.g., hard or soft candies).
11.1.3.2	Glucose syrup used to manufacture sugar confectionery	Glucose syrup, as described in 11.1.3, used to manufacture candy products that are included in food category 05.2 (e.g., hard or soft candies).
11.1.4	Lactose	A natural constituent of milk normally obtained from whey. It may be anhydrous, or contain one molecule of water of crystallization, or be a mixture of both forms.
11.1.5	Plantation or mill white sugar	Purified and crystallized sucrose with a polarisation of not less than 99,5°Z.

11.2	Brown sugar excluding products of food category 11.1.3	Includes large-grain, brown or yellow lump sugars, such as Demerara sugar.
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	Includes co-products of the sugar refining process (e.g., treacle and molasses), invert sugar (equimolar mixture of glucose and fructose produced from the hydrolysis of sucrose), ⁶⁹ and other sweeteners, such as high fructose corn syrup, high fructose inulin syrup and corn sugar.
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	Includes all types of table syrups (e.g., maple syrup), syrups for fine bakery wares and ices (e.g., caramel syrup, flavored syrups), and decorative sugar toppings (e.g., colored sugar crystals for cookies).
11.5	Honey	Honey is the natural sweet substance produced by honeybees from the nectar of blossoms or secretions of plants. The honeybees collect the nectar or secretions, transform it by combination with specific substances of the bees' own, and store it in a honeycomb to ripen and mature. Examples of honey include wildflower honey and clover honey.
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	Includes products that are preparations of high-intensity sweeteners (e.g., acesulfame potassium) and/or of polyols (e.g., sorbitol) which may contain other additives and/or nutritive ingredients, such as carbohydrates. These products, which are sold to the final consumer, may be in powder, solid (e.g., tablets or cubes), or liquid form.
12.0	Salts, spices, soups, sauces, salads, protein products	This is a broad category that includes substances added to food to enhance its aroma and taste (12.1 – salt and salt substitutes; 12.2 – herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles); 12.3 – vinegars; and 12.4 - mustards), certain prepared foods (12.5 – soups and broths; 12.6 – sauces and like products; and 12.7 – salads (e.g., macaroni salad, potato salad) and sandwich spreads, excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3)), and products composed primarily of protein that are derived from soybeans or from other sources (e.g., milk, cereal, or vegetables) (12.9 - soybean-based seasonings and

		condiments; and 12.10 – protein products other than from soybeans).
12.1	Salt and salt substitutes	Includes salt (12.1.1.) and salt substitutes (12.1.2) used as seasoning for food.
12.1.1	Salt	Primarily food-grade sodium chloride. Includes table salt, iodized and fluoride iodized salt, and dendritic salt.
12.1.2	Salt substitutes	Salt substitutes are seasonings with reduced sodium content intended to be used on food in place of salt.
12.2	Herbs, spices, seasonings, and condiments (e.g., seasoning for instant noodles)	This category describes items whose use is intended to enhance the aroma and taste of food.
12.2.1	Herbs and spices	Herbs and spices are usually derived from botanical sources, and may be dehydrated, and either ground or whole. Examples of herbs include basil, oregano and thyme. Examples of spices include cumin and caraway. Spices may also be found as blends in powder or paste form. Examples of spice blends include chilli seasoning, chilli paste, curry paste, curry roux, and dry cures or rubs that are applied to external surfaces of meat or fish.
12.2.2	Seasonings and condiments	Condiments include seasonings such as meat tenderizers, onion salt, garlic salt, Oriental seasoning mix (<i>dashi</i>), topping to sprinkle on rice (<i>furikake</i>), and seasoning for noodles. The term “condiments” as used in the FCS does not include condiment sauces (e.g., ketchup, mayonnaise, mustard) or relishes.
12.3	Vinegars	Liquid produced from fermentation of ethanol from a suitable source (e.g., wine, cider). Examples include, cider vinegar, wine vinegar, malt vinegar, spirit vinegar, grain vinegar, raisin vinegar, and fruit (wine) vinegar.
12.4	Mustards	Condiment sauce prepared from ground, often defatted mustard seed that is mixed into a slurry with water, vinegar, salt, oil and other spices and refined. Examples include Dijon mustard, and “hot” mustard (prepared from seeds with hulls).
12.5	Soups and broths	Includes ready-to-eat soups and mixes. The finished products may be water- (e.g., consommé) or milk-based (e.g., chowder).

12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	Water- or milk-based products consisting of vegetable, meat or fish broth with or without other ingredients (e.g., vegetables, meat, noodles). Examples include: bouillon, broths, consommés, water- and cream-based soups, chowders, and bisques.
12.5.2	Mixes for soups and broths	Concentrated soup to be reconstituted with water and/or milk, with or without addition of other optional ingredients (e.g., vegetables, meat, noodles). Examples include: bouillon powders and cubes; powdered and condensed soups (e.g., <i>mentsuyu</i>); and stock cubes and powders.
12.6	Sauces and like products	Includes ready-to-eat sauces, gravies and dressings, and mixes to be reconstituted before consumption. The ready-to eat products are divided into sub-categories for emulsified (12.6.1) and non-emulsified (12.6.2) products, whereas the sub-category for the mixes (12.6.3) encompasses both emulsified and non-emulsified sauce mixes.
12.6.1	Emulsified sauces (e.g., mayonnaise, salad dressing):	Sauces, gravies and dressings based, at least in part, on a fat- or oil-in water emulsion. Examples include: salad dressing (e.g., French, Italian, Greek, ranch style), fat-based sandwich spreads (e.g., mayonnaise with mustard), salad cream, and fatty sauces.
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	Include water-, coconut milk-, and milk-based sauces, gravies and dressings. Examples include: barbecue sauce, tomato ketchup, cheese sauce, Worcestershire sauce, Oriental thick Worcestershire sauce (<i>tonkatsu sauce</i>), chilli sauce, sweet and sour dipping sauce, and white (cream-based) sauce (sauce consisting primarily of milk or cream, with little added fat (e.g., butter) and flour, with or without seasoning or spices).
12.6.3	Mixes for sauces and gravies	Concentrated product, usually in powdered form, to be mixed with water, milk, oil or other liquid to prepare a finished sauce or gravy. Examples include mixes for cheese sauce, hollandaise sauce, and salad dressing
12.6.4	Clear sauces (e.g., fish sauce)	Includes thin, non-emulsified clear sauces that may be water-based. These sauces may be used as condiments or ingredients rather than

		as finished gravy (for use e.g., on roast beef). Examples include: oyster sauce, and Thai fish sauce (“ <i>nam pla</i> ”).
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	Includes prepared salads, milk-based sandwich spreads, non-standardized mayonnaise-like sandwich spreads and dressing for coleslaw (cabbage salad).
12.8	Yeast and like products	Includes baker's yeast and leaven used in the manufacture of baked goods. Includes the Oriental products “ <i>koji</i> ” (rice or wheat malted with <i>A. oryzae</i>) used in the production of alcoholic beverages.
12.9	Soybean-based seasonings and condiments	Includes products that are derived from soybeans and other ingredients intended for use as seasonings and condiments, such as fermented soybean paste and soybean sauces.
12.9.1	Fermented soybean paste (e.g., miso)	The product is made of soybeans, salt, water and other ingredients, using the process of fermentation. The product includes “ <i>dou jiang</i> ” (China), “ <i>doenjang</i> ” (Republic of Korea) or “ <i>miso</i> ” (Japan), which may be used in the preparation of soups or dressings, or as a seasoning.
12.9.2	Soybean sauce	A liquid seasoning obtained by fermentation of soybeans, non-fermentation (e.g., hydrolysis) of soybeans, or by hydrolysis of vegetable protein.
12.9.2.1	Fermented soybean sauce	A clear, non-emulsified sauce made of soybeans, cereal, salt and water by the fermentation process.
12.9.2.2	Non-fermented soybean sauces	Non-fermented soybean sauce, which is also known as non-brewed soybean sauce, may be produced from vegetable proteins, such as defatted soybeans that are acid-hydrolyzed (e.g., with hydrochloric acid), neutralized (e.g., with sodium carbonated), and filtered.
12.9.2.3	Other soybean sauce	Non-emulsified sauce made from fermented soybean sauce and/or non-fermented soybean sauce, with or without sugar, with or without caramelization process.
12.10	Protein products other than from soybeans	Includes, for example, milk protein, cereal protein and vegetable protein analogues or substitutes for standard products, such as meat,

		fish or milk. Examples include: vegetable protein analogues, <i>fu</i> (a mixture of gluten (vegetable protein) and flour that is sold dried (baked) or raw, and is used as an ingredient, e.g., in miso soup) and proteinaceous meat and fish substitutes.
13.0	Foodstuffs intended for particular nutritional uses	Foods for special dietary use are specially processed or formulated to satisfy particular dietary requirements that exist because of a particular physical or physiological condition and/or specific disease and disorder. The composition of these foods must differ significantly from the composition of ordinary foods of comparable nature, if such foods exist. Dietetic foods other than those in 13.0 are included in the categories for their standard counterparts.
13.1	Infant formulae, follow-up formulae, and formulae for special medical purposes for infants	Foods that are intended for infants and for young children as defined in the sub-categories 13.1.1, 13.1.2, and 13.1.3.
13.1.1	Infant formulae	A human milk substitute for infants (aged no more than 12 months) that is specifically formulated to provide the sole source of nutrition during the first months of life up to the introduction of appropriate complementary feeding. Product is in a liquid form, either as a ready-to-eat product, or is reconstituted from a powder. Products, other than those under food category 13.1.3, may be, hydrolyzed protein and/or amino acid-based, or milk-based.
13.1.2	Follow-up formulae	Food intended for use as a liquid part of the complementary feeding of infants (aged at least 6 months) and for young children (aged 1-3 years). They may be ready-to-eat or in a powdered form to be reconstituted with water. Products, other than those under food category 13.1.3, may be soy based hydrolyzed protein and/or amino acid-based, or milk-based.
13.1.3	Formulae for special medical purposes intended for infants	Foods for special dietary use that are specially processed or formulated and presented for the dietary management of infants and may be used only under medical supervision. They are intended for the exclusive or partial feeding of infants with limited or impaired capacity to

		take, digest, absorb or metabolize ordinary infant formulae or certain nutrients contained therein, or who have other special medically-determined nutrient requirement, whose dietary management cannot be achieved only by modification of the normal diet, by other foods for special dietary uses, or by a combination of the two.
13.2	Complementary foods for infants and young children	Foods that are intended for infants 6 months of age and older, and for progressive adaptation of infants and children to ordinary food. Products may be ready-to-eat or in powder form to be reconstituted with water, milk, or other suitable liquid. These foods exclude infant formulae (13.1.1), follow-up formulae (13.1.2), and formulae for special medical purposes (13.1.3). Examples include: cereal-, fruit-, vegetable-, and meat-based “baby foods” for infants, “toddler foods,” and “junior foods”; lactea flour, biscuits and rusks for children.
13.3	Dietic foods intended for special medical purposes (excluding products of food category 13.1)	Foods for special dietary use that are specially processed or formulated and presented for the dietary management of patients and may be used only under medical supervision. They are intended for the exclusive or partial feeding of patients with limited or impaired capacity to take, digest, absorb or metabolize ordinary foods or certain nutrients contained therein, or who have other special medically-determined nutrient requirement, whose dietary management cannot be achieved only by modification of the normal diet, by other foods for special dietary uses, or by a combination of the two.
13.4	Dietic formulae for slimming purposes and weight reduction	Formula foods that when presented as “ready-to-eat” or when prepared in conformity with the directions for use are specifically presented as replacements for all or part of the total daily diet. Includes products with reduced caloric content such as those that are low in sugar and/or fat, sugar- or fat-free, or contain sugar- and/or fat-substitutes.
13.5	Dietic foods (e.g., supplementary foods for dietary use) excluding products of food categories	Products of high nutritional content, in liquid or solid form (e.g., protein bars), to be used by individuals as part of a balanced diet to provide supplemental nutrition. Products are

	13.1-13.4 and 13.6	not intended to be used for purposes of weight loss or as part of a medical regimen.
13.6	Food supplements	Includes vitamin and mineral supplements in unit dose forms such as capsules, tablets, powders, solutions, etc.
14.0	Non-alcoholic ("soft") beverages	This major category is divided into the broad categories of non-alcoholic (14.1) and alcoholic (14.2) beverages. Dairy-based beverages are included in 01.1.4.
14.1	Non-alcoholic ("soft") beverages	This broad category includes waters and carbonated waters (14.1.1), fruit and vegetable juices (14.1.2), fruit and vegetable nectars (14.1.3), water-based flavored carbonated and non-carbonated drinks (14.1.4), and water-based brewed or stepped beverages such as coffee and tea (14.1.5).
14.1.1	Waters	Includes natural waters (14.1.1.1) and other bottled waters (14.1.1.2), each of which may be non-carbonated or carbonated.
14.1.1.1	Natural mineral waters and source waters	Waters obtained directly at the source and packaged close to the source; are characterized by the presence of certain mineral salts in relative proportions and trace elements or other constituents. Natural mineral water may be naturally carbonated (with carbon dioxide from the source), carbonated (with added carbon dioxide of another origin), decarbonated (with less carbon dioxide than present in the water at the source so it does not spontaneously give off carbon dioxide under conditions of standard temperature and pressure), or fortified (with carbon dioxide from the source), and non-carbonated (contains no free carbon dioxide).
14.1.1.2	Table waters and soda waters	Includes waters other than natural source waters that may be carbonated by addition of carbon dioxide and may be processed by filtration, disinfection, or other suitable means. These waters may contain added mineral salts. Carbonated and non-carbonated waters containing flavors are found in category 14.1.4. Examples are table water, bottled water with or without added minerals, purified water, seltzer water, club soda, and sparkling water.
14.1.2	Fruit and vegetable juices	This category applies only to fruit and

		vegetable juices. Beverages based on fruit and vegetable juices are found in food category 14.1.4.2. Fruit-vegetable juice blends have separate classifications for each component (i.e., fruit juice (14.1.2.1) and vegetable juice (14.1.2.3)).
14.1.2.1	Fruit juice	Fruit juice is the unfermented but fermentable liquid obtained from the edible part of sound, appropriately mature and fresh fruit or of fruit maintained in sound condition by suitable means. The juice is prepared by suitable processes, which maintain the essential physical, chemical, organoleptical and nutritional characteristics of the juices of the fruit from which it comes. The juice may be cloudy or clear, and may have restored (to the normal level attained in the same kind of fruit) aromatic substances and volatile flavor components, all of which must be obtained by suitable physical means, and all of which must have been recovered from the same kind of fruit. Pulp and cells obtained by suitable physical means from the same kind of fruit may be added. A single juice is obtained from one kind of fruit. A mixed juice is obtained by blending two or more juices and purees, from different kinds of fruit. Fruit juice may be obtained, e.g., by directly expressing the juice by mechanical extraction processes, by reconstituting concentrated fruit juice (food category 14.1.2.3) with water, or in limited situations by water extraction of the whole fruit (e.g., prune juice from dried prunes). Examples include: orange juice, apple juice, black currant juice, lemon juice, orange-mango juice and coconut water.
14.1.2.2	Vegetable juice	Vegetable juice is the liquid unfermented but fermentable product intended for direct consumption obtained by mechanical expression, crushing, grinding, and/or sieving of one or more sound fresh vegetables or vegetables preserved exclusively by physical means. The juice may be clear, turbid, or pulpy. It may have been concentrated and reconstituted with water. Products may be based on a single vegetable (e.g., carrot) or blends of vegetables (e.g., carrots, celery).

14.1.2.3	Concentrates for fruit juice	Concentrated fruit juice is the product that complies with the definition given in food category 14.1.2.1. It is prepared by the physical removal of water from fruit juice in an amount to increase the Ofrix level to a value at least 50% greater than that established for reconstituted juice from the same fruit. In the production of juice that is to be concentrated, suitable processes are used, and may be combined, with simultaneous diffusion of the pulp cells or fruit pulp by water, provided that the water-extracted soluble fruit solids are added in-line to the primary juice, before the concentration procedure. Fruit juice concentrates may have restored (to the normal level attained in the same kind of fruit) aromatic substances and volatile flavor components, all of which must be obtained by suitable physical means, and all of which must be recovered from the same kind of fruit. Pulp and cells obtained by suitable physical means from the same kind of fruit may be added. Solid in liquid, syrup and frozen forms for the preparation of a ready-to-drink juice by addition of water. Examples include: frozen orange juice concentrate, and lemon juice concentrate.
14.1.2.4	Concentrates for vegetable juice	Prepared by the physical removal of water from vegetable juice. Solid in liquid, syrup and frozen forms for the preparation of a ready-to-drink juice by addition of water. Includes carrot juice concentrate.
14.1.3	Fruit and vegetable nectars	Fruit and vegetable nectars are beverages produced from purees, juices, or concentrates of either, blended with water and sugar, honey, syrups and/or sweeteners. Fruit-vegetables nectar blends are reported under their components (i.e., fruit nectar (14.1.3.1) and vegetable nectar (14.1.3.2)).
14.1.3.1	Fruit nectar	Fruit nectar is the unfermented but fermentable product obtained by adding water with or without the addition of sugar, honey, syrups, and/or sweeteners to fruit juice, concentrated fruit juice, fruit purees or concentrated fruit purees, or a mixture of those products. Aromatic substances, volatile flavor components, pulp and cells, all of which must

		have been recovered from the same kind of fruit and obtained by suitable physical means, may be added. Products may be based on a single fruit or on fruit blends. Examples include: pear nectar and peach nectar.
14.1.3.2	Vegetable nectar	Product obtained by adding water with or without the addition of sugar, honey, syrups, and/or sweeteners to vegetable juice or concentrated vegetable juice, or a mixture of those products. Products may be based on a single vegetable or on a blend of vegetables.
14.1.3.3	Concentrate for fruit nectar	Prepared by the physical removal of water from fruit nectar or its starting materials. Solid in liquid, syrup and frozen forms for the preparation of a ready-to-drink nectars by addition of water. Examples: pear nectar concentrate and peach nectar concentrate.
14.1.3.4	Concentrates for vegetable nectar	Prepared by the physical removal of water from vegetable nectar. Solid in liquid, syrup and frozen forms for the preparation of a ready-to-drink nectars by addition of water.
14.1.4	Water-based flavored drinks, including “sport”, “energy”, or “electrolyte” drinks and particulated drinks	Includes all carbonated and non-carbonated varieties and concentrates. Includes products based on fruit and vegetable juices. Also, includes coffee-, tea- and herbal-based drinks.
14.1.4.1	Carbonated water-based flavored drinks	Includes water-based flavored drinks with added carbon dioxide with nutritive, non-nutritive and/or intense sweeteners and other permitted food additives. Includes “gaseosa” (water-based drinks with added carbon dioxide, sweetener, and flavor), and sodas such as colas, pepper-types, root beer, lemon-lime, and citrus types, both diet/light and regular types. These beverages may be clear, cloudy, or may contain particulated matter (e.g. fruit pieces). Includes so-called “energy” drinks that are carbonated and contain high levels of nutrients and other ingredients (e.g., caffeine, taurine, carnitine).
14.1.4.2	Non-carbonated water-based flavored drinks, including punches and ades	Include water-based flavored drinks without added carbon dioxide, fruit and vegetable juice-based drinks (e.g., almond, aniseed, coconut-based drinks, and ginseng drink), fruit flavored ades (e.g., lemonade, orangeade), squashes (citrus-based soft drinks), capile groselha, lactic acid beverage, ready-to-thinks

		coffee and tea drinks with or without milk or milk solids, and herbal-based drinks (e.g., iced tea, fruit-flavored iced tea, chilled canned cappuccino drinks) and "sports" drinks containing electrolytes. These beverages may be clear or contain particulated matter (e.g., fruit pieces), and may be unsweetened or sweetened with sugar or a non-nutritive high-intensity sweetener. Includes so-called "energy" drinks that are non-carbonated and contain high levels of nutrients and other ingredients (e.g., caffeine, taurines, carnitine).
14.1.4.3	Concentrates (liquid or solid) for water-based flavored drinks	Include powder, syrup, liquid and frozen concentrates for the preparation of carbonated or non-carbonated water-based non-alcoholic beverages by addition of water or carbonated water. Examples include: fountain syrups (e.g., cola syrup), fruit syrups for soft drinks, frozen or powdered concentrate for lemonade and iced tea mixes.
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	Includes the ready-to-drink products (e.g., canned), and their mixes and concentrates. Examples include: chicory-based hot beverages (postum), rice tea, mate tea, and mixes for hot coffee and tea beverages (e.g., instant coffee, powder for hot cappuccino beverages). Treated coffee beans for the manufacture of coffee products are also included. Ready-to-drink cocoa is included in category 01.1.2, and cocoa mixes in 05.1.1.
14.2	Alcoholic beverages, including alcohol-free and low-alcoholic counterparts	The alcohol-free and low-alcoholic counterparts are included in the same category as the alcoholic beverage.
14.2.1	Beer and malt beverages	Alcoholic beverages brewed from germinated barley (malt), hops, yeast, and water. Examples include: ale, brown beer, weiss beer, pilsner, lager beer, oud bruin beer, Obergariges Einfachbier, light beer, table beer, malt liquor, porter, stout, and barleywine.
14.2.2	Cider and perry	Fruit wines made from apples (cider) and pears (perry). Also includes cider bouche.
14.2.3	Grape wines	Alcoholic beverage obtained exclusively from the partial or complete alcoholic fermentation of fresh grapes, whether crushed or not, or of grape must (juice).

14.2.3.1	Still grape wine	Grape wine (white, red, rosé, or blush, dry or sweet) that may contain up to a maximum 0.4g/100 ml (4000 mg/kg) carbon dioxide at 20°C.
14.2.3.2	Sparkling and semi-sparkling grape wines	Grape wines in which carbonation is produced during the fermentation process, either by bottle fermentation or closed tank fermentation. Also includes carbonated wine whose carbon dioxide is partially or totally of exogenous origin. Examples include: spumante, and “cold duck” wine.
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	Grape wines produced either by: (i) the fermentation of grape must (juice) of high sugar concentration; or (ii) by the blending of concentrated grape juice with wine; or (iii) the mixture of fermented must with alcohol. Examples include: grape dessert wine.
14.2.4	Wines (other than grape)	Includes wines made from fruit other than grapes, apples and pears, and from other agricultural products, including grain (e.g., rice). These wines may be still or sparkling. Examples include: rice wine (sake), and sparkling and still fruit wines.
14.2.5	Mead	Alcoholic liquor made from fermented honey, malt and spices, or just of honey. Includes honey wine.
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	Includes all distilled spirituous beverages derived from grain (e.g., corn, barley, rye, wheat), tubers (e.g., potato), fruit (e.g., grapes, berries) or sugar cane that contain greater than 15% alcohol. Examples include: aperitifs, brandy (distilled wine), cordials, liqueurs (including emulsified liqueurs), bagaceira belha (grappa from Portugal; bagaceira is a drink distilled from bagaço (pressed skins, seeds and stalks of the grapes)), eau de vie (a brandy), gin, grappa (Italian brandy distilled from the residues of pressed wine), marc (brandy distilled from grape or apple residue), korn (grain spirit (schnapps) of Germany, usually derived from rye (Roggen), sometimes from wheat (Weizen) or both (Getreide); also labelled as Kornbrantt or Kornbrantwein), mistela (also mistelle (France) and jeropico (South Africa); unfermented grape juice fortified with grape alcohol), ouzo (Greek

		spirit drink flavored with aniseed), rum, tsikoudia (grape marc spirit from Crete), tsipouro (grape marc spirit from certain regions in Greece), wienbrand (style of grape brandy devised by Hugo Asbach, Rudesheim, Germany; literally, “burnt wine”), cachaça (Brazilian liquor made from fermented distilled sugar cane juice), tequila, whiskey, and vodka.
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low-alcoholic	Includes all non-standardized alcoholic beverage products. Although most of these products contain less than 15% alcohol, some traditional non-standardized aromatized products may contain up to 24% alcohol. Examples include aromatized wine, cider and perry; aperitif wines; americano; batidas (drinks made from cachaça, fruit juice or coconut milk and, optionally, sweetened condensed milk); bitter soda and bitter vino; clarea (also claré or clary; a mixture of honey, white wine and spices; it is closely related to hippocras, which is made with red wine); jurubeba alcoholic drinks (beverage alcohol product made from the Solanum paniculatum plant indigenous to the north of Brazil and other parts of South America); negus (sangria; a hot drink made with port wine, sugar, lemon and spice); sod, soft, and sodet; vermouth; zurra (in Southern Spain, a sangria made with peaches or nectarines; also the Spanish term for a spiced wine made of cold or warm wine, sugar, lemon, oranges or spices); amazake (a sweet low-alcoholic beverages (<1% alcohol) made from rice by koji; mirin (a sweet alcoholic beverage (<10% alcohol) made from a mixture of shochuu (a spirituous beverage), rice and koji); “malternatives,” and prepared cocktails (mixtures of liquors, liqueurs, wines, essences, fruit and plant extracts, etc. marketed as ready-to-drink products or mixes). Cooler-type beverages are composed of beer, malt beverage, wine or spirituous beverage, fruit juice(s), and soda water (if carbonated).
15.0	Ready-to-eat savouries	Includes all types of savoury snack foods.
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and	Includes all plain and flavored savoury snacks, but excludes plain crackers (category 07.1.2). Examples include potato chips, popcorn,

	legumes)	pretzels, rice crackers (senbei), flavored crackers (e.g., cheese-flavored crackers), bhujia (namkeen; snack made of a mixture of flours, maize, potatoes, salt, dried fruit, peanuts, spices, colors, flavors, and antioxidants), and papads (prepared from soaked rice flour or from black gram or cow pea flour, mixed with salt and spices, and formed into balls or flat cakes).
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	Includes all types of whole nuts processed by, e.g., dry-roasting, roasting, marinating or boiling, either inshell or shelled, salted or plain. Yoghurt-, cereal-, and honey-covered nuts, and dried fruit-nut-and-cereal snacks (e.g., “trail mixes”) are classified here. Chocolate-covered nuts are classified in 05.1.4.
15.3	Snacks - fish based	This describes savoury crackers with fish, fish products or fish flavoring. Dried fish per se that may be consumed as a snack is assigned to food category 09.2.5, and dried meat snacks (e.g., beef jerky, pemmican) are assigned to food category 08.3.1.2.
16.0	Composite foods – foods that could not be placed in categories 01-15	Includes prepared or composite dishes in which additives are directly added to the composite food.. Additives may also be present as a result of carry-over from the ingredients. For example, an additive that is used as an ingredient in a meat pie, but not in any of its ingredients (e.g., in the crust) is reported in this category. Examples of composite dishes include: dehydrated culinary products which may contain processed vegetables or animal ingredients and spices, to be reconstituted with water before cooking, prepared dinners (e.g., frozen entrees), casseroles, mincemeat and snack dips (e.g., onion dip).