

FOOD ADDITIVES PERMITTED UNDER THE SINGAPORE FOOD REGULATIONS

(as at 1 September 2020)

This guidance document includes mainly those food additives listed under Regulations 16 to 28, Regulation 36 and the Schedules (Third to Eighth, as well as Thirteenth), and is not an exhaustive list of all the food additives permitted under the Food Regulations. This guidance document is not legally binding, and should be read together with the Food Regulations. A soft copy of the Food Regulations may be downloaded from:

- <http://www.sfa.gov.sg/legislation>. [Click on “Sale of Food Act”]

Legend:

(GMP) - “Good manufacturing practice” means that the additive may be added to food at a quantity limited to the lowest possible level necessary to accomplish its desired effect, unless otherwise prohibited under individual standards under the Food Regulations. Food additives listed under the Seventh Schedule when used as nutrient supplements should be added at levels that are safe and suitable for the target consumers, and taking into consideration the requirements specified under Regulations 11(4) and 252.

(*) – Maximum levels or specific conditions of use are stipulated under the Food Regulations. Traders are advised to refer to the specified Regulation or Schedule for details. For revisions that are pending gazettal under the Food Regulations, traders are advised to refer to the footnotes for details.

(A) Food Additives With INS Numbers

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
100	-	Curcumins	see INS 100(i) & (ii)		
100(i)	100	Curcumin	Curcumin	5th Schedule (Part II)	GMP
100(ii)	-	Turmeric	Turmeric	5th Schedule (Part II)	GMP
101	101	Riboflavins	see INS 101(i) & (ii)		
101(i)	-	Riboflavin, synthetic	Riboflavin	7th Schedule	GMP
101(ii)	-	Riboflavin 5'-phosphate sodium	Riboflavin-5'-phosphate sodium	7th Schedule	GMP
102	102	Tartrazine	Tartrazine	5th Schedule (Part I)	GMP
103	-	Alkanet	Alkannet	5th Schedule (Part II)	GMP
104	104	Quinoline yellow	Quinoline yellow	5th Schedule (Part I)	GMP
110	110	Sunset yellow FCF	Sunset yellow FCF	5th Schedule (Part I)	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
120	120	Carmines	Colour obtained from cochineal	5th Schedule (Part II)	GMP
122	122	Azorubine (carmoisine)	Carmoisine	5th Schedule (Part I)	GMP
123	123	Amaranth	Amaranth	5th Schedule (Part I)	GMP
124	124	Ponceau 4R (Cochineal red A)	Ponceau 4R	5th Schedule (Part I)	GMP
127	127	Erythrosine	Erythrosine	5th Schedule (Part I)	GMP
129	129	Allura red AC	Allura red AC	5th Schedule (Part I)	GMP
132	132	Indigotine (Indigo carmine)	Indigo carmine	5th Schedule (Part I)	GMP
133	133	Brilliant blue FCF	Brilliant blue FCF	5th Schedule (Part I)	GMP
134	-	Spirulina extract	Spirulina extract or cyanobacterial-phycoerythrin extracted from <i>Spirulina platensis</i>	5th Schedule (Part II)	GMP
140	140	Chlorophyll	Chlorophyll	5th Schedule (Part II)	GMP
141	141	Chlorophylls and chlorophyllins, copper complexes	see INS 141(i) & (ii)		
141(i)	141	Chlorophylls, copper complexes	Copper complexes of chlorophylls	5th Schedule (Part I)	GMP
141(ii)	141	Chlorophyllins, copper complexes, potassium and sodium salts	Sodium and potassium salts of copper complexes of chlorophyllins	5th Schedule (Part I)	GMP
142	142	Green S	Green S	5th Schedule (Part I)	GMP
143	-	Fast green FCF	Fast green FCF	5th Schedule (Part I)	GMP
150a	150a	Caramel I - plain (Caustic caramel)	Plain caramel (caustic caramel)	5th Schedule (Part II)	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
150b	150b	Caramel II - caustic sulfite process	Caustic sulphite caramel	5th Schedule (Part II)	GMP
150c	150c	Caramel III - ammonia process	Ammonia caramel	5th Schedule (Part II)	GMP
150d	150d	Caramel IV - sulfite ammonia process	Sulphite ammonia caramel	5th Schedule (Part II)	GMP
151	151	Brilliant black (Black PN)	Brilliant black PN	5th Schedule (Part I)	GMP
153	153	Vegetable carbon	Carbon black (prepared from vegetable sources only)	5th Schedule (Part II)	GMP
155	155	Brown HT	Chocolate brown HT	5th Schedule (Part I)	GMP
160a	160a	Carotenes	see INS 160a(i) to (iii)		
160a(i)	-	Beta-carotenes (synthetic)	Carotene / Beta-carotene	5th Schedule(Part II), 7th Schedule	GMP
160a(ii)	-	Beta-carotenes (vegetable)	Carotene / Beta-carotene	5th Schedule (Part II), 7th Schedule	GMP
160a(iii)	-	Beta-carotenes (<i>Blakeslea trispora</i>)	Carotene / Beta-carotene	5th Schedule (Part II), 7th Schedule	GMP
160b	160b	Annatto extracts	Annatto	5th Schedule (Part II)	GMP
160b(i)	160b	Annatto extracts, bixin-based	Annatto	5th Schedule (Part II)	GMP
160b(ii)	160b	Annatto extracts, norbixin-based	Annatto	5th Schedule(Part II)	GMP
160c(ii)	160c	Paprika extract	Paprika extract	5th Schedule(Part II)	GMP
160d	160d	Lycopenes	see INS 160d (i), (ii) and (iii)		
160d(i)	-	Lycopene (synthetic)	Lycopene	5th Schedule (Part II)	GMP
160d(ii)	-	Lycopenes (tomato)	Lycopene	5th Schedule (Part II)	GMP

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160d(iii)	-	Lycopenes (<i>Blakeslea trispora</i>)	Lycopene	5th Schedule (Part II)	GMP
160e	160e	Beta-apo-8'-carotenal	Carotene	5th Schedule (Part II)	GMP
160f	-	Beta-apo-8'-carotenoic acid, ethyl ester	Carotene	5th Schedule (Part II)	GMP
161b(i)	161b	Lutein from <i>Tagetes erecta</i>	Lutein	5th Schedule (Part II)	GMP
161b(iii)	-	Lutein esters from <i>Tagetes erecta</i>	Lutein esters from <i>Tagetes erecta</i>	5th Schedule (Part II)	GMP
162	162	Beet red	Beet red	5th Schedule (Part II)	GMP
163(ii)	-	Grape skin extract	Grape skin extract (Enociania)	5th Schedule (Part II)	GMP
163(v)	-	Red cabbage colour	Red cabbage colour	5th Schedule (Part II)	GMP
166	-	Sandalwood	Sandalwood	5th Schedule (Part II)	GMP
170(i)	170	Calcium carbonate	Calcium carbonate	Regulation 16(3), 7th & 8th Schedules	*
171	171	Titanium dioxide	Titanium dioxide	5th Schedule (Part II)	GMP
172	172	Iron oxides	Iron oxide	5th Schedule (Part II)	GMP
172(i)	172	Iron oxide, black	Iron oxide	5th Schedule (Part II)	GMP
172(ii)	172	Iron oxide, red	Iron oxide	5th Schedule (Part II)	GMP
172(iii)	172	Iron oxide, yellow	Iron oxide	5th Schedule (Part II)	GMP
173	173	Aluminium	Aluminium	5th Schedule (Part II)	GMP
174	174	Silver	Silver	5th Schedule (Part II)	GMP
175	175	Gold (metallic)	Gold	5th Schedule (Part II)	GMP
200	200	Sorbic acid	Sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*

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201	-	Sodium sorbate	Sodium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
202	202	Potassium sorbate	Potassium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule Part I	*
203	203	Calcium sorbate	Calcium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
210	210	Benzoic acid	Benzoic acid	Regulation 19(2)(b), 4th Schedule Part I	*
211	211	Sodium benzoate	Sodium salt of benzoic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
212	212	Potassium benzoate	Potassium salt of benzoic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
218	218	Methyl para-hydroxybenzoate	Methyl para-hydroxybenzoate	Regulation 19(2)(b), 4th Schedule (Part I)	*
219	219	Sodium methyl para-hydroxybenzoate	Sodium salt of methyl para-hydroxybenzoate	Regulation 19(2)(b), 4th Schedule (Part I)	*
220	220	Sulfur dioxide	Sulphur dioxide	Regulation 19(2)(b), 4th Schedule (Part I)	*
221	221	Sodium sulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
222	222	Sodium hydrogen sulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
223	223	Sodium metabisulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
224	224	Potassium metabisulphite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
225	-	Potassium sulfite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
226	226	Calcium sulfite	Calcium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
227	227	Calcium hydrogen sulfite	Calcium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*

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228	228	Potassium bisulfite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
233	-	Thiabendazole	Regulated as a pesticide for which maximum residue limits are specified under the Food Regulations	9th Schedule	*
234	234	Nisin	Nisin	Regulation 32(3)	*
235	235	Natamycin (Pimaricin)	Natamycin	Regulation 117(2)	*
242	242	Dimethyl dicarbonate	Dimethyl dicarbonate	Regulation 19(2)(c), 4th Schedule (Part II)	*
249	249	Potassium nitrite	Nitrite of potassium	Regulation 19(2)(b), 4th Schedule (Part I)	*
250	250	Sodium nitrite	Nitrite of sodium	Regulation 19(2)(b), 4th Schedule (Part I)	*
251	251	Sodium nitrate	Nitrate of sodium	Regulation 19(2)(b), 4th Schedule (Part I)	*
252	252	Potassium nitrate	Nitrate of potassium	Regulation 19(2)(b), 4th Schedule (Part I)	*
260	260	Acetic acid (glacial)	Acetic acid	Regulation 19(2)(a), 8th Schedule	GMP
261	-	Potassium acetates	see INS 261(i) & (ii)		
261(i)	261	Potassium acetate	Potassium salt of acetic acid	Regulation 19(2)(a)	GMP
261(ii)	-	Potassium diacetate	Potassium salt of acetic acid	Regulation 19(2)(a)	GMP
262	262	Sodium acetates	see INS 262(i) & (ii)		
262(i)	-	Sodium acetate	Sodium acetate / Sodium salt of acetic acid	8th Schedule, Regulation 19(2)(a)	GMP

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262(ii)	-	Sodium diacetate	Sodium salt of acetic acid	Regulation 19(2)(a)	GMP
263	263	Calcium acetate	Calcium salt of acetic acid	Regulation 19(2)(a)	GMP
270	270	Lactic acid (L-, D- and DL-)	Lactic acid	Regulation 19(2)(a), 8th Schedule	GMP
280	280	Propionic acid	Propionic acid	Regulation 19(2)(a)	GMP
281	281	Sodium propionate	Sodium salt of propionic acid	Regulation 19(2)(a)	GMP
282	282	Calcium propionate	Calcium salt of propionic acid	Regulation 19(2)(a)	GMP
283	283	Potassium propionate	Potassium salt of propionic acid	Regulation 19(2)(a)	GMP
290	290	Carbon dioxide	Carbon dioxide	Regulation 27(2), 8th Schedule	* Regulation 27(2)
296	296	Malic acid (DL-)	Malic acid	Regulations 19(2)(a), 141, 173 and 174, 8th Schedule	GMP
297	297	Fumaric acid	Fumaric acid	8th Schedule	GMP
300	300	Ascorbic acid (L-)	Ascorbic acid	Regulation 17(2), 19(2)(a), 39(2)(d), 171, 172 & 174, 7th Schedule	GMP
301	301	Sodium ascorbate	Sodium salt of ascorbic acid / Sodium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP
302	302	Calcium ascorbate	Calcium salt of ascorbic acid / Calcium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP
303	-	Potassium ascorbate	Potassium salt of ascorbic acid / Potassium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP

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304	304(i)	Ascorbyl palmitate	Ascorbyl palmitate / Ascorbyl-6-palmitate	3rd Schedule, 7th Schedule	*3rd Schedule
307	-	Tocopherols	Tocopherols	Regulation 17(2)	GMP
307a	307	Tocopherol, d-alpha	D-alpha tocopherol	7th Schedule	GMP
307b	306	Tocopherol concentrate, mixed	Tocopherols	Regulation 17(2)	GMP
307c	307	Tocopherol, dl-alpha	DL-alpha tocopherol	7th Schedule	GMP
310	310	Propyl gallate	Propyl gallate	3rd Schedule	*
311	311	Octyl gallate	Octyl gallate	3rd Schedule	*
312	312	Dodecyl gallate	Dodecyl gallate	3rd Schedule	*
315	315	Erythorbic acid (Isoascorbic acid)	Erythorbic acid	Regulations 17(2) & 19(2)(a)	GMP
316	316	Sodium erythorbate (Sodium isoascorbate)	Sodium salt of erythorbic acid	Regulation 19(2)(a)	GMP
317	-	Potassium isoascorbate	Potassium salt of erythorbic acid	Regulation 19(2)(a)	GMP
318	-	Calcium isoascorbate	Calcium salt of erythorbic acid	Regulation 19(2)(a)	GMP
319	319	Tertiary butylhydroquinone	Tertiary butylhydroquinone (TBHQ)	3rd Schedule	*
320	320	Butylated hydroxyanisole	Butylated hydroxyanisole (BHA)	3rd Schedule	*
321	321	Butylated hydroxytoluene	Butylated hydroxytoluene (BHT)	3rd Schedule	*
322(i)	322	Lecithin	Lecithin	Regulation 17(2), 6th Schedule	GMP

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322(ii)	-	Partially hydrolysed lecithin	Partially hydrolysed lecithin	6th Schedule	GMP
324	-	Ethoxyquin	Ethoxyquin	3rd & 9th Schedules	*
325	325	Sodium lactate	Sodium salt of lactic acid / Sodium lactate	Regulation 19(2)(a), 7th Schedule	GMP
326	326	Potassium lactate	Potassium salt of lactic acid / Potassium lactate	Regulation 19(2)(a), 7th Schedule	GMP
327	327	Calcium lactate	Calcium salt of lactic acid / Calcium lactate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
329	-	Magnesium lactate (DL-)	Magnesium lactate	8th Schedule	GMP
330	330	Citric acid	Citric acid	Regulations 17(2), 19(2)(a), 26(3), 125, 173 & 174, 8th Schedule	GMP
331	331	Sodium citrates	see INS 331(i), (ii) & (iii)		
331(i)	-	Sodium dihydrogen citrate	Sodium salt of citric acid	Regulation 19(2)(a)	GMP
331(ii)	-	Disodium monohydrogen citrate	Sodium salt of citric acid	Regulation 19(2)(a)	GMP
331(iii)	-	Trisodium citrate	Sodium salt of citric acid / Sodium citrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
332	332	Potassium citrates	see INS 332 (i) & (ii)		
332(i)	-	Potassium dihydrogen citrate	Potassium salt of citric acid	Regulation 19(2)(a)	GMP
332(ii)	-	Tripotassium citrate	Potassium salt of citric acid / Potassium citrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
333	333	Calcium citrates	see INS 333 (i), (ii) & (iii)		

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333(i)	-	Monocalcium citrate	Calcium salt of citric acid	Regulation 19(2)(a) & 26(3)	GMP
333(ii)	-	Dicalcium citrate	Calcium salt of citric acid	Regulation 19(2)(a) & 26(3)	GMP
333(iii)	-	Tricalcium citrate	Calcium salt of citric acid / Calcium citrate	Regulation 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
334	334	Tartaric acid (L (+)-)	Tartaric acid	Regulations 19(2)(a), 26(3), 173 & 174, 8th Schedule	GMP
335	335	Sodium tartrates	see INS 335(i) & (ii)		
335(i)	-	Monosodium tartrate	Sodium salt of tartaric acid	Regulation 19(2)(a)	GMP
335(ii)	-	Sodium L(+) - tartrate	Sodium salt of tartaric acid / Sodium tartrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
336	336	Potassium tartrates	see INS 336(i) & (ii)		
336(i)	-	Monopotassium tartrate	Potassium salt of tartaric acid	Regulation 19(2)(a)	GMP
336(ii)	-	Dipotassium tartrate	Potassium salt of tartaric acid	Regulation 19(2)(a)	GMP
337	337	Potassium sodium L(+)-tartrate	Sodium potassium tartrate	8th Schedule	GMP
338	338	Phosphoric acid	Phosphoric acid	Regulations 17(2), 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
339	339	Sodium phosphates	see INS 339(i), (ii) & (iii)		
339(i)	-	Sodium dihydrogen phosphate	Sodium salt of phosphoric acid / Sodium phosphate, monobasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP

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339(ii)	-	Disodium hydrogen phosphate	Sodium salt of phosphoric acid / Sodium phosphate, dibasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP
339(iii)	-	Trisodium phosphate	Sodium salt of phosphoric acid / Sodium phosphate, tribasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP
340	340	Potassium phosphates	see INS 340 (i), (ii) & (iii)		
340(i)	-	Potassium dihydrogen phosphate	Potassium salt of phosphoric acid / Potassium phosphate, monobasic	Regulation 19(2)(a), 6 th & 7th Schedules	GMP
340(ii)	-	Dipotassium hydrogen phosphate	Potassium salt of phosphoric acid / Potassium phosphate, dibasic	Regulation 19(2)(a), 6 th & 7th Schedules	GMP
340(iii)	-	Tripotassium phosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
341	341	Calcium phosphates	see INS 341(i), (ii) & (iii)		
341(i)	-	Calcium dihydrogen phosphate	Calcium salt of phosphoric acid / Acid calcium phosphate / Calcium phosphate, monobasic	Regulations 19(2)(a) & 26(3), Regulation 39(2)(g), 7th & 8th Schedules	* Regulation 39(2)(g)
341(ii)	-	Calcium hydrogen phosphate	Calcium salt of phosphoric acid / Calcium phosphate, dibasic	Regulations 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
341(iii)	-	Tricalcium phosphate	Calcium salt of phosphoric acid / Calcium phosphate, tribasic	Regulations 19(2)(a) & 26(3), 6th, 7th & 8th Schedules	GMP
342	-	Ammonium phosphates	see INS 342(i) & (ii)		

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342(i)	-	Ammonium dihydrogen phosphate	Ammonium phosphate, monobasic	8th Schedule	GMP
342(ii)	-	Diammonium hydrogen phosphate	Ammonium phosphate, dibasic	8th Schedule	GMP
343(ii)	-	Magnesium hydrogen phosphate	Magnesium phosphate, dibasic	7th Schedule	GMP
343(iii)	-	Trimagnesium phosphate	Magnesium phosphate, tribasic	7th Schedule	GMP
345	-	Magnesium citrate	Magnesium citrate	7th Schedule	GMP
350	350	Sodium malates	see INS 350(i) & (ii)		
350(i)	-	Sodium hydrogen DL-malate	Sodium salt of malic acid	Regulation 19(2)(a)	GMP
350(ii)	-	Sodium DL-malate	Sodium salt of malic acid	Regulation 19(2)(a)	GMP
351	-	Potassium malates	see INS 351(i) & (ii)		
351(i)	-	Potassium hydrogen malate	Potassium salt of malic acid	Regulation 19(2)(a)	GMP
351(ii)	351	Potassium malate	Potassium salt of malic acid	Regulation 19(2)(a)	GMP
352	352	Calcium malates	see INS 352(i) & (ii)		
352(i)	-	Calcium hydrogen malate	Calcium salt of malic acid	Regulation 19(2)(a)	GMP
352(ii)	-	Calcium malate (D,L-)	Calcium salt of malic acid	Regulation 19(2)(a)	GMP
354	354	Calcium tartrate (DL-)	Calcium salt of tartaric acid	Regulations 19(2)(a) & 26(3)	GMP
355	355	Adipic acid	Adipic acid	8th Schedule	GMP
363	363	Succinic acid	Succinic acid	8th Schedule	GMP

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365	-	Sodium fumarate	Sodium fumarate	8 th Schedule	GMP
375	-	Nicotinic acid	Nicotinic acid	7th Schedule	GMP
380	380	Triammonium citrate	Triammonium citrate	8th Schedule	GMP
381	-	Ferric ammonium citrate	Ferric ammonium citrate	7th Schedule	GMP
383	-	Calcium glycerophosphate	Calcium glycerophosphate	7th Schedule	GMP
384	-	Isopropyl citrates	Isopropyl citrate mixture (including monoisopropyl citrate)	3rd Schedule	*
385	385	Calcium disodium ethylenediaminetetra acetate	Calcium disodium ethylenediaminetetraacetate	Regulation 26(4)	*
392	392	Rosemary extract	Rosemary extract	3rd Schedule	*
400	400	Alginic acid	Alginic acid	6th Schedule	GMP
401	401	Sodium alginate	Sodium alginate	6th Schedule	GMP
402	402	Potassium alginate	Potassium alginate	6th Schedule	GMP
403	403	Ammonium alginate	Ammonium alginate	6th Schedule	GMP
404	404	Calcium alginate	Calcium alginate	6th Schedule	GMP
405	405	Propylene glycol alginate	Propylene glycol alginate	6th Schedule	GMP
406	406	Agar	Agar	6th Schedule	GMP
407	407	Carrageenan (includes furcelleran)	Carrageenan and Furcelleran	6th Schedule	GMP
407a	407a	Processed eucheuma seaweed (PES)	Processed Eucheuma seaweed	6th Schedule	GMP

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409	-	Arabinogalactan	Arabinogalactan (larch gum)	6th Schedule	GMP
410	410	Carob bean gum	Carob gum	6th Schedule	GMP
412	412	Guar gum	Guar gum	6th Schedule	GMP
413	413	Tragacanth gum	Tragacanth gum	6th Schedule	GMP
414	414	Gum arabic (Acacia gum)	Acacia gum	6th Schedule	GMP
415	415	Xanthan gum	Xanthan gum	6th Schedule	GMP
416	416	Karaya gum	Karaya gum	6th Schedule	GMP
417	417	Tara gum	Tara gum	6th Schedule	GMP
418	418	Gellan gum	Gellan gum	6th Schedule	GMP
419	-	Gum ghatti	Ghatti gum	6th Schedule	GMP
420	420	Sorbitols	See INS 420(i) and 420(ii)		
420(i)	420	Sorbitol	Sorbitol	8th Schedule	GMP
420(ii)	420	Sorbitol syrup	Sorbitol syrup	8th Schedule	GMP
421	421	Mannitol	Mannitol	8th Schedule	GMP
422	422	Glycerol	Glycerol / Glycerin or Glycerol	Regulation 22(2), 8th Schedule	GMP
424	-	Curdlan	Curdlan	6th Schedule	GMP
425	425	Konjac flour	Konjac flour	6th Schedule	GMP
432	432	Polyoxyethylene (20) sorbitan monolaurate	Polyoxyethylene (20) sorbitan monolaurate (polysorbate 20)	6th Schedule	GMP
433	433	Polyoxyethylene (20) sorbitan monooleate	Polyoxyethylene (20) sorbitan mono-oleate (polysorbate 80)	6th Schedule	GMP

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434	434	Polyoxyethylene (20) sorbitan monopalmitate	Polyoxyethylene (20) sorbitan mono-palmitate (polysorbate 40)	6th Schedule	GMP
435	435	Polyoxyethylene (20) sorbitan monostearate	Polyoxyethylene (20) sorbitan monostearate (polysorbate 60)	6th Schedule	GMP
436	436	Polyoxyethylene (20) sorbitan tristearate	Polyoxyethylene (20) sorbitan tristearate (polysorbate 65)	6th Schedule	GMP
437	-	Tamarind seed polysaccharide	Tamarind seed polysaccharide	6th Schedule	GMP
440	440	Pectins	Pectins, including amidated pectins	6th Schedule	GMP
442	442	Ammonium salts of phosphatidic acid	Ammonium phosphatides	Regulation 168(1)(ga)	*
444	444	Sucrose acetate isobutyrate	Sucrose acetate isobutyrate	Regulation 21(3)(b)	*
445(iii)	445	Glycerol ester of wood rosin	Ester gum	Regulation 21(3)(a)	*
450	450	Diphosphates	see INS 450(i) - (vii)		
450(i)	-	Disodium diphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
450(ii)	-	Trisodium diphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
450(iii)	-	Tetrasodium diphosphate	Sodium salt of phosphoric acid / Sodium pyrophosphate	Regulation 19(2)(a), 6th & 8th Schedules	GMP
450(iv)	-	Dipotassium diphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a)	GMP
450(v)	-	Tetrapotassium diphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP

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450(vi)	-	Dicalcium diphosphate	Calcium salt of phosphoric acid / Calcium pyrophosphate	Regulation 19(2)(a), 6th & 7th Schedules	GMP
450(vii)	-	Calcium dihydrogen diphosphate	Calcium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
451	451	Triphosphates	see INS 451(i) & (ii)		
451(i)	-	Pentasodium triphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
451(ii)	-	Pentapotassium triphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
452	452	Polyphosphates	see INS 452(i), (ii) & (iv)		
452(i)	-	Sodium polyphosphate	Sodium salt of phosphoric acid / Sodium hexametaphosphate	Regulations 19(2)(a), Regulation 100(c) 6th Schedule	* Regulation 100(c)
452(ii)	-	Potassium polyphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
452(iv)	-	Calcium polyphosphate	Calcium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
457	-	Cyclodextrin, alpha-	Cyclodextrin, alpha-	6th Schedule	GMP
458	-	Cyclodextrin, gamma-	Cyclodextrin, gamma-	6th Schedule	GMP
459	459	Cyclodextrin, beta-	beta-Cyclodextrin	Regulation 22(2)	GMP
460	460	Celluloses	see INS 460 (i) & (ii)		
460(i)	-	Microcrystalline cellulose (cellulose gel)	Cellulose	6th Schedule	GMP
460(ii)	-	Powdered cellulose	Cellulose	6th Schedule	GMP
461	461	Methyl cellulose	Methyl cellulose	6th Schedule	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
462	462	Ethyl cellulose	Ethyl cellulose	6th Schedule	GMP
463	463	Hydroxypropyl cellulose	Hydroxy propyl cellulose	6th Schedule	GMP
464	464	Hydroxypropyl methyl cellulose	Hydroxy propyl methyl cellulose	6th Schedule	GMP
465	465	Methyl ethyl cellulose	Methyl ethyl cellulose	6th Schedule	GMP
466	466	Sodium carboxymethyl cellulose (cellulose gum)	Carboxy methyl cellulose	6th Schedule	GMP
467	-	Ethyl hydroxyethyl cellulose	Ethyl hydroxyethyl cellulose	6th Schedule	GMP
468	468	Cross-linked sodium carboxymethyl cellulose (cross-linked cellulose gum)	Croscarmellose sodium	Regulation 18(5), 6th Schedule	GMP
469	469	Sodium carboxymethyl cellulose, enzymatically hydrolysed (cellulose gum, enzymatically hydrolysed)	Enzymatically hydrolysed sodium carboxymethyl cellulose (cellulose gum, enzymatically hydrolysed)	6th Schedule	GMP
470(i)	470a	Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium	Ammonium, calcium, potassium or sodium myristate; Ammonium, calcium, potassium or sodium palmitate; Ammonium, calcium, potassium or sodium stearate	Regulation 16(3), Regulation 18(5) (applies to calcium stearate only), 6th Schedule	* Regulation 16(3)
470(ii)	470a	Salts of oleic acid with calcium, potassium and sodium	Calcium, potassium or sodium oleate	Regulation 16(3), 6th Schedule	* Regulation 16(3)

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
470(iii)	-	Magnesium stearate	Magnesium stearate	Regulation 16(3), 8th Schedule	* Regulation 16(3)
471	471	Mono- and di-glycerides of fatty acids	Mono and diglycerides of fatty acids	6th Schedule	GMP
472a	472a	Acetic and fatty acid esters of glycerol	Acetylated mono-glycerides	6th Schedule	GMP
472b	472b	Lactic and fatty acid esters of glycerol	Glycerol esters of lactic acid	8th Schedule	GMP
472c	472c	Citric and fatty acid esters of glycerol	Citric acid glycerides / Glycerol esters of citric acid	6th & 8th Schedule	GMP
472d	472d	Tartaric acid esters of mono- and di-glycerides of fatty acids	Tartaric acid glycerides	6th Schedule	GMP
472e	472e	Diacetyltartaric and fatty acid esters of glycerol	Diacetyl tartaric acid glycerides	6th Schedule	GMP
473	473	Sucrose esters of fatty acids	Sucrose esters of fatty acids	8th Schedule	GMP
475	475	Polyglycerol esters of fatty acids	Polyglycerol esters of fatty acids	6th Schedule	GMP
476	476	Polyglycerol esters of interesterified ricinoleic acid	Polyglycerol polyricinoleate	6th Schedule	GMP
477	477	Propylene glycol esters of fatty acids	Propylene glycol esters of fatty acids	6th Schedule	GMP
480	-	Diethyl sodium sulfosuccinate	Diethyl sodium sulphosuccinate	6th Schedule	GMP
481(i)	481	Sodium stearyl lactylate	Sodium salt of stearyl-2-lactylic acid	6th Schedule	GMP
482(i)	482	Calcium stearyl lactylate	Calcium salt of stearyl-2-lactylic acid	6th Schedule	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
483	483	Stearyl tartrate	Stearyl tartrate	6th Schedule	GMP
491	491	Sorbitan monostearate	Sorbitan monostearate	6th Schedule	GMP
492	492	Sorbitan tristearate	Sorbitan tristearate	6th Schedule	GMP
493	493	Sorbitan monolaurate	Sorbitan monolaurate	6th Schedule	GMP
494	494	Sorbitan monooleate	Sorbitan mono-oleate	6th Schedule	GMP
495	495	Sorbitan monopalmitate	Sorbitan mono-palmitate	6th Schedule	GMP
500	500	Sodium carbonates	see INS 500(i), (ii) & (iii)		
500(i)	-	Sodium carbonate	Sodium carbonate	Regulation 181, 7th & 8th Schedules	GMP
500(ii)	500(ii)	Sodium hydrogen carbonate	Sodium bicarbonate	7th & 8th Schedules	GMP
500(iii)	-	Sodium sesquicarbonate	Sodium sesquicarbonate	8th Schedule	GMP
501	501	Potassium carbonates	see INS 501(i) & (ii)		
501(i)	-	Potassium carbonate	Potassium carbonate	7th & 8th Schedules	GMP
501(ii)	-	Potassium hydrogen carbonate	Potassium bicarbonate	7th & 8th Schedules	GMP
503	503	Ammonium carbonates	see INS 503(i) & (ii)		
503(i)	-	Ammonium carbonate	Ammonium carbonate	8th Schedule	GMP
503(ii)	-	Ammonium hydrogen carbonate	Ammonium bicarbonate	8th Schedule	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
504(i)	504	Magnesium carbonate	Magnesium carbonate	Regulation 16(3), 7th & 8th Schedules	* Regulation 16(3)
504(ii)	-	Magnesium hydroxide carbonate	Magnesium hydroxide carbonate	8th Schedule	GMP
505	-	Ferrous carbonate	Ferrous carbonate	7th Schedule	GMP
507	507	Hydrochloric acid	Hydrochloric acid	8th Schedule	GMP
508	508	Potassium chloride	Potassium chloride	7th & 8th Schedules	GMP
509	509	Calcium chloride	Calcium chloride	Regulation 211, 7th & 8th Schedules	* Regulation 211
510	-	Ammonium chloride	Ammonium chloride	Regulation 39(2)(f)	*
511	511	Magnesium chloride	Magnesium chloride	Regulation 211, 7th & 8th Schedules	*
513	513	Sulfuric acid	Sulphuric acid	8th Schedule	GMP
514	514	Sodium sulfates	See INS 514(i) & (ii)		
514(i)	-	Sodium sulfate	Sodium sulphate	7th & 8th Schedules	GMP
514(ii)	-	Sodium hydrogen sulfate	Sodium acid sulphate (sodium hydrogen sulphate)	8th Schedule	GMP
515(i)	515	Potassium sulfate	Potassium sulphate	8th Schedule	GMP
516	516	Calcium sulfate	Calcium sulphate	Regulations 42 & 211, 7th & 8th Schedules	* Regulations 42 & 211
517	517	Ammonium sulfate	Ammonium sulphate	8th Schedule	GMP
518	-	Magnesium sulfate	Magnesium sulphate	7th & 8th Schedules	GMP
519	-	Cupric sulfate	Cupric sulphate	7th Schedule	GMP
522	522	Aluminium potassium sulfate	Aluminium potassium sulphate	Regulation 141(d)	*
524	524	Sodium hydroxide	Sodium hydroxide	7th & 8th Schedules	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
525	525	Potassium hydroxide	Potassium hydroxide	7th & 8th Schedules	GMP
526	526	Calcium hydroxide	Calcium hydroxide	7th & 8th Schedules	GMP
527	527	Ammonium hydroxide	Ammonium hydroxide	8th Schedule	GMP
528	528	Magnesium hydroxide	Magnesium hydroxide	7th & 8th Schedules	GMP
529	529	Calcium oxide	Calcium oxide	7th Schedule	GMP
530	530	Magnesium oxide	Magnesium oxide	7th & 8th Schedules	GMP
535	535	Sodium ferrocyanide	Sodium ferrocyanide	Regulation 16(4)	*
536	536	Potassium ferrocyanide	Potassium ferrocyanide	Regulation 16(4)	*
539	-	Sodium thiosulfate	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
541	-	Sodium aluminium phosphate	see INS 541(i) & (ii)		
541(i)	541	Sodium aluminium phosphate (acidic)	Sodium aluminium phosphate	8th Schedule	GMP
541(ii)	-	Sodium aluminium phosphate (basic)	Sodium aluminium phosphate	8th Schedule	GMP
542	-	Bone phosphate	Edible bone phosphate	Regulation 16(3)	*
551	551	Silicon dioxide, amorphous	Silicon dioxide / Silica aerogel	Regulation 16(3), 8th Schedule	* Regulation 16(3)
552	552	Calcium silicate	Calcium silicate	Regulation 16(3)	*
553	553a	Magnesium silicates	see INS 553(i), (ii) and (iii)		
553(i)	-	Magnesium silicate, synthetic	Magnesium silicate (synthetic)	Regulation 16(3)	*
553(ii)	-	Magnesium trisilicate	Magnesium trisilicate	Regulation 16(3)	*

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
553(iii)	553b	Talc	Talc	Regulation 16(3)	*
554	554	Sodium aluminosilicate	Sodium aluminium silicate	Regulation 16(3)	*
556	556	Calcium aluminium silicate	Calcium aluminium silicate	Regulation 16(3)	*
575	575	Glucono delta-lactone	Glucono delta-lactone	8th Schedule	GMP
576	576	Sodium gluconate	Sodium gluconate	7th Schedule	GMP
577	577	Potassium gluconate	Potassium gluconate	7th Schedule	GMP
578	578	Calcium gluconate	Calcium gluconate	7th & 8th Schedules	GMP
579	579	Ferrous gluconate	Ferrous gluconate	7th Schedule	GMP
580	-	Magnesium gluconate	Magnesium gluconate	7th Schedule	GMP
585	585	Ferrous lactate	Ferrous lactate	7th Schedule	GMP
620	620	Glutamic acid, L(+)	L-glutamic acid	Regulation 23(2)	GMP
621	621	Monosodium L-glutamate	Monosodium L-glutamate / Monosodium salt of L-glutamic acid / Monosodium glutamate	Regulations 23(2), 23(3) & 246	GMP
622	622	Monopotassium L-glutamate	Monopotassium L-glutamate	Regulation 23(2)	GMP
623	623	Calcium di-L-glutamate	Calcium di-L-glutamate	Regulation 23(2)	GMP
624	624	Monoammonium L-glutamate	Monoammonium L-glutamate	Regulation 23(2)	GMP
625	625	Magnesium di-L-glutamate	Magnesium di-L-glutamate	Regulation 23(2)	GMP
626	626	Guanylic acid, 5'-	Guanylic acid	Regulation 23(2)	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
627	627	Disodium 5'-guanylate	Disodium 5'-guanylate	Regulation 23(2)	GMP
628	628	Dipotassium 5'-guanylate	Dipotassium 5'-guanylate	Regulation 23(2)	GMP
629	629	Calcium 5'-guanylate	Calcium 5'-guanylate	Regulation 23(2)	GMP
630	630	Inosinic acid, 5'-	Inosinic acid	Regulation 23(2)	GMP
631	631	Disodium 5'-inosinate	Disodium 5'-inosinate	Regulation 23(2)	GMP
632	632	Potassium 5'-inosinate	Dipotassium 5'-inosinate	Regulation 23(2)	GMP
633	633	Calcium 5'-inosinate	Calcium 5'-inosinate	Regulation 23(2)	GMP
634	634	Calcium 5'-ribonucleotides	see INS 629 and INS 633 above		
635	635	Disodium 5'-ribonucleotides	see INS 627 and INS 631 above		
637	-	Ethyl maltol	Ethyl maltol	Regulation 23(2)	GMP
640	640	Glycine	Glycine	Regulation 26(3)	GMP
650	650	Zinc acetate	Zinc acetate	7th Schedule	GMP
900a	900	Polydimethylsiloxane	Dimethyl polysiloxane	Regulations 16A(3) & (4)	*
901	901	Beeswax	Beeswax	8th Schedule	GMP
902	902	Candelilla wax	Candelilla wax	8th Schedule	GMP
903	903	Carnauba wax	Carnauba wax	8th Schedule	GMP
904	904	Shellac, bleached	Shellac	8th Schedule	GMP
905a	-	Mineral oil, food grade	White mineral oils	Regulation 36	*
905b	-	Petroleum jelly (Petrolatum)	Petroleum jellies	Regulation 36	*

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
905c(i)	905	Microcrystalline wax	Micro-crystalline waxes	Regulation 36	*
905c(ii)	-	Paraffin wax	Hard paraffins	Regulation 36	*
917	-	Potassium iodate	Potassium iodate	Regulation 212, 7th Schedule	* Regulation 212
920	920	Cysteine, L- and its hydrochlorides - sodium and potassium salts	Only L-cysteine is permitted	Regulation 23(2)	GMP
922	-	Potassium persulfate	Potassium persulphate	Regulation 39(2)(e)	*
923	-	Ammonium persulfate	Ammonium persulphate	Regulation 39(2)(e)	*
925	-	Chlorine	Chlorine	Regulation 39(3)	*
926	-	Chlorine dioxide	Chlorine dioxide	Regulation 39(3)	*
928	-	Benzoyl peroxide	Benzoyl peroxide	Regulation 39(3)	*
-	939	Helium	Helium	Regulation 27(2), 8th Schedule	*
941	941	Nitrogen	Nitrogen	Regulation 27(2), 8th Schedule	* Regulation 27(2)
942	942	Nitrous oxide	Nitrous oxide	8th Schedule	GMP
950	950	Acesulfame potassium	Acesulfame-K	Regulation 18, 13th Schedule	*
951	951	Aspartame	Aspartame	Regulation 5(4)(f), 8th Schedule	* Regulation 5(4)(f)
952	952	Cyclamates	see INS 952(i), (ii) and (iv)		
952(i)	952	Cyclamic acid	Cyclamic acid	Regulation 18, 13th Schedule	*
952(ii)	952	Calcium cyclamate	Calcium salt of cyclamic acid	Regulation 18, 13th Schedule	*

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
952(iv)	952	Sodium cyclamate	Sodium salt of cyclamic acid	Regulation 18, 13th Schedule	*
953	953	Isomalt (Hydrogenated isomaltulose)	Isomalt	8th Schedule	GMP
954	954	Saccharins	see INS 954 (i), (ii), (iii) & (iv)		
954(i)	954	Saccharin	Saccharin	Regulation 18, 13th Schedule	*
954(ii)	954	Calcium saccharin	Calcium salt of saccharin	Regulation 18, 13th Schedule	*
954(iii)	954	Potassium saccharin	Potassium salt of saccharin	Regulation 18, 13th Schedule	*
954(iv)	954	Sodium saccharin	Sodium salt of saccharin	Regulation 18, 13th Schedule	*
955	955	Sucralose (Trichlorogalactosucrose)	Sucralose	Regulation 18, 13th Schedule	*
957	957	Thaumatococin	Thaumatococin	8th Schedule	GMP
960a	960	Steviol glycosides	Steviol glycosides	Regulation 18, 13th Schedule	*
961	961	Neotame	Neotame	Regulation 18, 13th Schedule	*
964	964	Polyglycitol syrup	Hydrogenated starch hydrolysate (polyglycitol syrup)	8th Schedule	GMP
965	965	Maltitols	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP
965(i)	-	Maltitol	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
965(ii)	-	Maltitol syrup	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP
966	966	Lactitol	Lactitol	8th Schedule	GMP
967	967	Xylitol	Xylitol	8th Schedule	GMP
968	968	Erythritol	Erythritol	8th Schedule	GMP
969	969	Advantame	Advantame	Regulation 18(3A)	GMP
999	999	Quillaia extracts	Quillaia extracts	Regulation 21(3A)	*
999(i)	999	Quillaia extract type 1	Quillaia extract (Type I)	Regulation 21(3A)	*
999(ii)	999	Quillaia extract type 2	Quillaia extract (Type II)	Regulation 21(3A)	*
1001(iii)	-	Choline chloride	Choline chloride	7th Schedule	GMP
1001(v)	-	Choline tartrate	Choline bitartrate	7th Schedule	GMP
1100	-	Amylases	Harmless preparation of enzymes obtained from <i>Aspergillus oryzae</i>	Regulation 39(2)(c), 8th Schedule	GMP
1101	-	Proteases	see INS 1101(i)		
1101(i)	-	Protease	Harmless preparation of enzymes obtained from <i>Aspergillus oryzae</i>	Regulation 39(2)(c), 8th Schedule	GMP
1105	1105	Lysozyme	Lysozyme	Regulation 117(1)	GMP
1200	1200	Polydextroses	Polydextrose	Regulation 252(6)(d), 8th Schedule	* Regulation 252(6)(d)

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
1202	1202	Polyvinylpyrrolidone, insoluble (polyvinylpolypyrrolidone)	Polyvinylpyrrolidone, insoluble (polyvinylpolypyrrolidone)	8th Schedule	GMP
1204	1204	Pullulan	Pullulan	8th Schedule	GMP
1400	-	Dextrins, roasted starch	Dextrin roasted starch	6th Schedule	GMP
1401	-	Acid-treated starch	Acid-treated starch	6th Schedule	GMP
1402	-	Alkaline treated starch	Alkaline-treated starch	6th Schedule	GMP
1403	-	Bleached starch	Bleached starch	6th Schedule	GMP
1404	1404	Oxidized starch	Oxidised starch	6th Schedule	GMP
1405	-	Starches, enzyme treated	Enzyme-treated starch	6th Schedule	GMP
1410	1410	Monostarch phosphate	Monostarch phosphate	6th Schedule	GMP
1412	1412	Distarch phosphate	Distarch phosphate	6th Schedule	GMP
1413	1413	Phosphated distarch phosphate	Phosphated distarch phosphate	6th Schedule	GMP
1414	1414	Acetylated distarch phosphate	Acetylated distarch phosphate	6th Schedule	GMP
1420	1420	Starch acetate	Starch acetate	6th Schedule	GMP
1422	1422	Acetylated distarch adipate	Acetylated distarch adipate	6th Schedule	GMP
1440	1440	Hydroxypropyl starch	Hydroxypropyl starch	6th Schedule	GMP
1442	1442	Hydroxypropyl distarch phosphate	Hydroxypropyl distarch phosphate	6th Schedule	GMP
1450	1450	Starch sodium octenyl succinate	Starch sodium octenyl succinate	6th Schedule	GMP

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
1451	1451	Acetylated oxidized starch	Acetylated oxidised starch	6th Schedule	GMP
1504(i)	-	Cyclotetraglucose	Cyclotetraglucose	8th Schedule	GMP
1504(ii)	-	Cyclotetraglucose syrup	Cyclotetraglucose syrup	8th Schedule	GMP
1505	1505	Triethyl citrate	Triethyl citrate	Regulation 28(6)	*
1517	1517	Glycerol diacetate	Diacetin	Regulation 22(2)	GMP
1518	1518	Triacetin	Triacetin	Regulation 22(2)	GMP
1519	1519	Benzyl alcohol	Benzyl alcohol	Regulation 22(2)	GMP
1520	1520	Propylene glycol	Propylene glycol	Regulation 22(2), 8th Schedule	GMP
1521	1521	Polyethylene glycol	Polyethylene glycol	8th Schedule	GMP

(B) Other Food Additives / ingredients

Note: Permitted enzymes are listed under Part 2 of the Eighth Schedule of the Food Regulations.

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
Acetone	Regulation 28(4) & 8th Schedule	* Regulation 28(4)
Alpha, alpha-trehalase (EC 3.2.1.28) produced from genetically modified <i>Trichoderma reesei</i> containing the alpha, alpha-trehalase gene from <i>Trichoderma reesei</i>	8 th Schedule	GMP
Ammonium molybdate	7th Schedule	GMP
Biotin (Vitamin H)	Regulation 252(3)(n), 7th Schedule	* Regulation 252(3)(n)
Bovine lactoferrin	Regulation 252(6)(e)	*
Calcium caseinate	6th Schedule	GMP
Calcium L-methylfolate	7th Schedule	GMP
Calcium pantothenate	7th Schedule	GMP
Carbonyl iron	7th Schedule	GMP
Cholecalciferol (Vitamin D3)	7th Schedule	GMP
Cholecalciferol-cholesterol (Vitamin D3)	7th Schedule	GMP
Chromium chloride hexahydrate	7th Schedule	GMP
Chromium picolinate	7th Schedule	GMP
Copper gluconate	7th Schedule	GMP
Cupric carbonate	7th Schedule	GMP
Cupric citrate	7th Schedule	GMP
Cyanocobalamin	7th Schedule	GMP

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
D-alpha-tocopheryl acetate	7th Schedule	GMP
D-alpha-tocopheryl succinate	7th Schedule	GMP
D-biotin	7th Schedule	GMP
DL-alpha-tocopheryl acetate	7th Schedule	GMP
DL-alpha-tocopheryl succinate	7th Schedule	GMP
Electrolytic iron	7th Schedule	GMP
Ergocalciferol (Vitamin D2)	7th Schedule	GMP
Ferric citrate	7th Schedule	GMP
Ferric gluconate	7th Schedule	GMP
Ferric phosphate	7th Schedule	GMP
Ferric pyrophosphate	7th Schedule	GMP
Ferric saccharate	7th Schedule	GMP
Ferrous ammonium phosphate	7th Schedule	GMP
Ferrous citrate	7th Schedule	GMP
Ferrous fumarate	7th Schedule	GMP
Ferrous bisglycinate (ferrous glycinate processed with citric acid)	7th Schedule	GMP
Ferrous succinate	7th Schedule	GMP
Ferrous sulphate	7th Schedule	GMP
Folic acid	7th Schedule	GMP
2'-fucosyllactose	Regulation 252(6)(g)	*
Galacto-oligosaccharides	Regulation 252(6)(c)	*
High fructose syrup	8th Schedule	GMP

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
Hydrogen peroxide	8th Schedule	GMP
Hydrogen reduced iron	7th Schedule	GMP
Hydroxocobalamin	7th Schedule	GMP
Inositol	7th Schedule	GMP
L-Isoleucine	7th Schedule	GMP
L- Isoleucine monohydrochloride	7th Schedule	GMP
Lactated mono-diglycerides	6th Schedule	GMP
Lacto-N-neotetraose	Regulation 252(6)(h)	*
L-Leucine	7th Schedule	GMP
L-Leucine monohydrochloride	7th Schedule	GMP
L-Lysine	7th Schedule	GMP
L- Lysine acetate	7th Schedule	GMP
L-Lysine monohydrochloride	7th Schedule	GMP
Magnesium glycerophosphate	7th Schedule	GMP
Manganese carbonate	7th Schedule	GMP
Manganese chloride	7th Schedule	GMP
Manganese citrate	7th Schedule	GMP
Manganese gluconate	7th Schedule	GMP
Manganese glycerophosphate	7th Schedule	GMP
Manganese sulphate	7th Schedule	GMP
Menaquinone-7	7th Schedule	GMP
Methanol	Regulation 28(5)	*

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
L-Methionine	7th Schedule	GMP
Monk fruit extract	Regulation 18(3B)	GMP
Niacin	7th Schedule	GMP
Niacinamide	7th Schedule	GMP
Nicotinamide	Regulation 252(3)(h), 7th Schedule	* Regulation 252(3)(h)
Nicotinic acid	7th Schedule	GMP
Oligofructose (from chicory root)	Regulation 252(6)(c), 8th Schedule	* Regulation 252(6)(c)
Panthenol (Dexpanthenol or D-pantothenyl alcohol)	7th Schedule	GMP
Pantothenic acid	Regulation 252(3)(k), 7th Schedule	* Regulation 252(3)(k)
Peracetic acid	8th Schedule	GMP
L-Phenylalanine	7th Schedule	GMP
Phylloquinone	7th Schedule	GMP
Phytosterols, phytosterol esters (also known as plant stanols, plant stanol esters)	Regulations 247(2), 250A	*
Phytosterols, phytosterol esters (also known as plant sterols, plant sterol esters)	Regulations 91A(3), 247(2), 250A	*
Potassium acid tartrate	8th Schedule	GMP
Potassium caseinate	6th Schedule	GMP
Potassium glycerophosphate	7th Schedule	GMP
Potassium iodide	Regulation 212, 7th Schedule	* Regulation 212
1,3-propanediol	Regulation 22	GMP

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
Pyridoxal	7th Schedule	GMP
Pyridoxamine	7th Schedule	GMP
Pyridoxine	7th Schedule	GMP
Pyridoxine hydrochloride	7th Schedule	GMP
Rebaudioside M produced by enzymatic modification of Rebaudioside A extracted from Stevia leaf, using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Escherichia coli</i> K-12 W311	-	*
Rebaudioside M produced by enzymatic conversion of purified Stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Pichia pastoris</i>	-	*
Retinol	7th Schedule	GMP
Retinyl acetate (Vitamin A acetate)	7th Schedule	GMP
Retinyl palmitate (Vitamin A palmitate)	7th Schedule	GMP
Retinyl propionate (Vitamin A propionate)	7th Schedule	GMP
Sodium caseinate	Regulation 65(1), 6th Schedule	GMP
Sodium chloride	7th Schedule	GMP

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
Sodium chloride, iodised	7th Schedule	GMP
Sodium ferric pyrophosphate	7th Schedule	GMP
Sodium ferrous citrate	7th Schedule	GMP
Sodium iodate	Regulation 212, 7th Schedule	* Regulation 212
Sodium iodide	Regulation 212, 7th Schedule	* Regulation 212
Sodium molybdate dihydrate	7th Schedule	GMP
Sodium pantothenate	7th Schedule	GMP
Sodium selenate	7th Schedule	GMP
Sodium selenite	7th Schedule	GMP
Soy leghemoglobin derived from genetically modified <i>Pichia pastoris</i>	Regulation 28(7)	**
Stearoyl-2-lactylic acid	6th Schedule	GMP
Sulphurous acid	Regulations 19(2)(b)(i) & 146(b), 8th Schedule	* Regulations 19(2)(b)(i) & 146(b),
Thiamin hydrochloride	7th Schedule	GMP
Thiamin mononitrate	7th Schedule	GMP
Theanine (L-)	Regulation 23(2)(e)	*
Threonine	7th Schedule	GMP
Trehalose	8th Schedule	GMP
Tryptophan	7th Schedule	GMP
Valine	7th Schedule	GMP
Vitamin A	Regulations 91(2)(a) & 252(3)(c), 7th Schedule	* Regulations 91(2)(a) & 252(3)(c)

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
Vitamin B1 (Thiamin)	Regulation 252(3)(f), 7th Schedule	* Regulation 252(3)(f)
Vitamin B12	Regulation 252(3)(l), 7th Schedule	* Regulation 252(3)(l)
Vitamin B2 (Riboflavin)	Regulation 252(3)(g), 7th Schedule	* Regulation 252(3)(g)
Vitamin B6	Regulation 252(3)(i), 7th Schedule	* Regulation 252(3)(i)
Vitamin C	Regulation 252(3)(e), 7th Schedule	* Regulation 252(3)(e)
Vitamin D	Regulations 91(2)(b) & 252(3)(d), 7th Schedule	* Regulations 91(2)(b) & 252(3)(d)
Vitamin E	Regulations 252(3)(o), 7th Schedule	* Regulations 252(3)(o)
Zinc chloride	7th Schedule	GMP
Zinc citrate	7th Schedule	GMP
Zinc gluconate	7th Schedule	GMP
Zinc lactate	7th Schedule	GMP
Zinc oxide	7th Schedule	GMP
Zinc sulphate	7th Schedule	GMP

(C) Food Additives Permitted for Use in Infant Formula (Regulation 252)

INS Number	E Number	Food Additive Name
412	412	Guar gum
410	410	Carob bean gum (Locust bean gum)
1412	1412	Distarch phosphate
1414	1414	Acetylated distarch phosphate
1413	1413	Phosphated distarch phosphate
1440	1440	Hydroxypropyl starch
407	407	Carrageenan

1450	1450	Starch sodium octenyl succinate
322(i)	322(i)	Lecithin
471	471	Mono- and diglycerides
472c	472c	Citric and fatty acid esters of glycerol
524	524	Sodium hydroxide
500(ii)	500(ii)	Sodium hydrogen carbonate
500(i)	500(i)	Sodium carbonate
525	525	Potassium hydroxide
501(ii)	501(ii)	Potassium hydrogen carbonate
501(i)	501(i)	Potassium carbonate
526	526	Calcium hydroxide
270	270	L(+) lactic acid
330	330	Citric acid
331(i)	331(i)	Sodium dihydrogen citrate
331(iii)	331(iii)	Trisodium citrate
332	332	Potassium citrate
339(i), 339(ii) and 339(iii)	339(i), 339(ii) and 339(iii)	Sodium dihydrogen phosphate, disodium hydrogen phosphate and trisodium phosphate
340(i), 340(ii) and 340(iii)	340(i), 340(ii) and 340(iii)	Potassium dihydrogen phosphate, dipotassium hydrogen phosphate and tripotassium phosphate
307b	306	Mixed tocopherol concentrate
304(i)	304(i)	Ascorbyl palmitate
290	290	Carbon dioxide
941	941	Nitrogen

(D) Food additive provisions permitted via administrative exemption granted under Section 55 of the Sale of Food Act

The following new provisions for food additives have been allowed via administrative exemption granted under Section 55 of the Sale of Food Act, pending legal amendments to the Food Regulations. Food businesses that (i) import, manufacture or sell any of these new food additives for food use, or (ii) import, manufacture or sell food products containing any of the following new food additive uses are to contact the Regulatory Standards Department [cheng_chee_seng@sfa.gov.sg or leong_ai_ling@sfa.gov.sg] on the specific administrative exemptions.

S/N	INS No.	Name of food additive	Provisions for use	Maximum permitted levels
1	473a	Sucrose oligoesters, type I and type II	8 th Schedule, General purpose food additive	GMP
2	1210	Sodium polyacrylate	Regulation 55: Instant noodles only	2000 ppm
3	--	Rebaudioside D produced by enzymatic conversion of purified stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Pichia pastoris</i>	Regulation 18 and 13 th Schedule (same provisions as for steviol glycosides)	Refer to provisions permitted for steviol glycosides in the 13 th Schedule
4	--	Rebaudioside E produced by enzymatic conversion of purified stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Pichia pastoris</i>	Regulation 18 and 13 th Schedule (same provisions as for steviol glycosides)	Refer to provisions permitted for steviol glycosides in the 13 th Schedule
5	--	Rebaudioside AM produced by enzymatic conversion of stevioside extracted from stevia leaf using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose	Regulation 18 and 13 th Schedule (same provisions as for steviol glycosides)	Refer to provisions permitted for steviol glycosides in the 13 th Schedule

S/N	INS No.	Name of food additive	Provisions for use	Maximum permitted levels
		synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Escherichia coli</i> K-12 W311		
6	960a	Steviol glycosides	<p>In addition to the permitted uses under the 13th Schedule, INS 960a may be used in the following food categories,</p> <ul style="list-style-type: none"> (i) Semi-preserved fish and fish products, including molluscs, crustaceans and echinoderms (applicable to sweet and sour products only) (ii) Fully preserved, including canned or fermented fish and fish products, including molluscs, crustaceans and echinoderms (applicable to sweet and sour products only) (iii) Semi-preserved caviar and other fish roe products (iv) Mustards (v) Soups and broths, including mixes (vi) Cocoa-based spreads, including fillings (vii) Bread and bakery products, and mixes for these products (viii) Flour confectionery products and mixes for these 	<p>Maximum permitted levels are calculated as steviol:</p> <ul style="list-style-type: none"> (i) 100 ppm (ii) 100 ppm (iii) 100 ppm (iv) 130 ppm (v) 50 ppm (vi) 330 ppm (vii) 160 ppm (viii) 330 ppm

S/N	INS No.	Name of food additive	Provisions for use	Maximum permitted levels
			products (applicable to products for special nutritional use only) (ix) Vegetable, nut and seed pulps and preparations	(ix) 330 ppm

Revision history

1. 17 Aug 2018 – Added footnote for nisin (INS 234).
2. 17 Aug 2018 – Added entry for soy leghemoglobin derived from genetically modified *Pichia pastoris*.
3. 16 Jan 2019 – Added footnote for steviol glycosides (INS 960a).
4. 16 Jan 2019 – Added entry and footnote for monk fruit extract.
5. 1 Feb 2019 – Removed footnotes for nisin (INS 234), steviol glycosides (INS 960a), and monk fruit extract, as new provisions for these additives have been included in the Food Regulations via the Food (Amendment) Regulations 2019. Added in other new additives that were also included in the Food Regulations via the Food (Amendment) Regulations 2019.
6. 27 Feb 2019 - Added footnote for sorbic acid (and its sodium, potassium and calcium salts) (INS 200, 201, 202, 203).
7. 27 Feb 2019 – Added footnote for benzoic acid (and its sodium and potassium salts) (INS 210, 211, 212).
8. 13 Mar 2019 – Added entry for Rebaudioside M produced by enzymatic modification of Rebaudioside A extracted from Stevia leaf.
9. 21 Mar 2019 – Added footnote for rosemary extract (INS 392)
10. 29 Mar 2019 – Added entry and footnote for Alpha, alpha-trehalase (EC 3.2.1.28) produced from genetically modified *Trichoderma reesei* containing the alpha, alpha-trehalase gene from *Trichoderma reesei*.
11. 28 May 2019 - Edited entry for “Rebaudioside M produced by enzymatic modification of Rebaudioside A extracted from Stevia leaf” to read as “Rebaudioside M produced by enzymatic modification of Rebaudioside A extracted from Stevia leaf, using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Escherichia coli* K-12 W31”.
12. 16 July 2019 – Added entry for “Rebaudioside M produced by enzymatic conversion of purified Stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Pichia pastoris*”.
13. 26 Aug 2019 – Added entry for sorbitol syrup (INS 420(ii)).
14. 17 Sep 2019 – Added entry for lutein esters from *Tagetes erecta* (INS 161b(iii)).
15. 16 Oct 2019 – Added footnotes for acesulfame-K ((INS 950)) and sucralose (INS 955).
16. 1 Nov 2019 - Added footnote for ferrous bisglycinate (ferrous glycinate processed with citric acid).
17. 21 Jan 2020 – Added table on list of permitted additives for use in infant formula.
18. 5 May 2020 – Added entry for sodium polyacrylate (INS 1210).

19. 2 June 2020 – Added entry for “Rebaudioside D produced by enzymatic conversion of purified stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Pichia pastoris*”.
20. 2 June 2020 – Added entry for “Rebaudioside E produced by enzymatic conversion of purified stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Pichia pastoris*”.
21. 19 June 2020 – Added entry for “Sucrose oligoesters, type I and type II (INS 473a)”.
22. 14 July 2020– Added entry for “Rebaudioside AM produced by enzymatic conversion of stevioside extracted from stevia leaf using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Escherichia coli* K-12 W311”.
23. 1 Sep 2020 – (i) Removed footnotes for Lutein esters from *Tagetes erecta*, Sorbic acid (and its sodium, potassium and calcium salts), Benzoic acid (and its sodium and potassium salts), Rosemary extract, Sorbitol syrup, Acesulfame-K, Sucralose, Alpha, alpha-trehalase (EC 3.2.1.28) produced from genetically modified *Trichoderma reesei* containing the alpha, alpha-trehalase gene from *Trichoderma reesei*, Ferrous bisglycinate (ferrous glycinate processed with citric acid), Rebaudioside M produced by enzymatic conversion of purified Stevia leaf extract using the enzymes UDP-glucosyltransferase (EC 2.4.1.17) and sucrose synthase (EC 2.4.1.13), produced by genetically modified strains of *Pichia pastoris*”, Soy leghemoglobin derived from genetically modified *Pichia pastoris*, as provisions for these additives have been included in the Food Regulations via the Food (Amendment No. 3) Regulations 2020. (ii) Consolidated provisions granted under administrative exemption (items 18 - 22 above and a new entry for use of steviol glycosides in 9 additional food categories) in a new Section D.