

## FOOD ADDITIVES PERMITTED UNDER THE SINGAPORE FOOD REGULATIONS

(as at 18 February 2021)

Food additives permitted for use in food products imported/manufactured for sale in Singapore are specified under the Food Regulations. The Singapore Food Agency (SFA) has prepared this guidance document to assist food businesses to conduct self-checks on their food products to ensure that only permitted food additives are used, and the levels used are within the maximum levels 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”, then select “Food Regulations”]

### 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 by individual standards under the Food Regulations. Nutrient supplements (i.e. food additives listed under the Seventh Schedule) 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 of use are stipulated under the Food Regulations. Food businesses are advised to refer to the specific Regulation or Schedule for details

### (A) Food Additives With INS Numbers

Table 1: 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
<b>100</b>	-	Curcumins	see INS 100(i) & (ii)		
<b>100(i)</b>	<b>100</b>	Curcumin	Curcumin	5th Schedule (Part II)	GMP
<b>100(ii)</b>	-	Turmeric	Turmeric	5th Schedule (Part II)	GMP
<b>101</b>	<b>101</b>	Riboflavins	see INS 101(i) & (ii)		
<b>101(i)</b>	-	Riboflavin, synthetic	Riboflavin	7th Schedule	GMP
<b>101(ii)</b>	-	Riboflavin 5'-phosphate sodium	Riboflavin-5'-phosphate sodium	7th Schedule	GMP
<b>102</b>	<b>102</b>	Tartrazine	Tartrazine	5th Schedule (Part I)	GMP (to note specific labelling requirements)

INS Number	E Number	Food Additive Name	Name of additive as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Notes
					for food products containing tartrazine in Regulation 5(4)(c))
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
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-phyco cyanin 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

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>141(ii)</b>	<b>141</b>	Chlorophyllins, copper complexes, potassium and sodium salts	Sodium and potassium salts of copper complexes of chlorophyllins	5th Schedule (Part I)	GMP
<b>142</b>	<b>142</b>	Green S	Green S	5th Schedule (Part I)	GMP
<b>143</b>	-	Fast green FCF	Fast green FCF	5th Schedule (Part I)	GMP
<b>150a</b>	<b>150a</b>	Caramel I - plain (Caustic caramel)	Plain caramel (caustic caramel)	5th Schedule (Part II)	GMP
<b>150b</b>	<b>150b</b>	Caramel II - caustic sulfite process	Caustic sulphite caramel	5th Schedule (Part II)	GMP
<b>150c</b>	<b>150c</b>	Caramel III - ammonia process	Ammonia caramel	5th Schedule (Part II)	GMP
<b>150d</b>	<b>150d</b>	Caramel IV - sulfite ammonia process	Sulphite ammonia caramel	5th Schedule (Part II)	GMP
<b>151</b>	<b>151</b>	Brilliant black (Black PN )	Brilliant black PN	5th Schedule (Part I)	GMP
<b>153</b>	<b>153</b>	Vegetable carbon	Carbon black (prepared from vegetable sources only)	5th Schedule (Part II)	GMP
<b>155</b>	<b>155</b>	Brown HT	Chocolate brown HT	5th Schedule (Part I)	GMP
<b>160a</b>	<b>160a</b>	Carotenes	see INS 160a(i) to (iii)		
<b>160a(i)</b>	-	Beta-carotenes (synthetic)	Carotene / Beta-carotene	5th Schedule (Part II), 7th Schedule	GMP
<b>160a(ii)</b>	-	Beta-carotenes (vegetable)	Carotene / Beta-carotene	5th Schedule (Part II), 7th Schedule	GMP
<b>160a(iii)</b>	-	Beta-carotenes ( <i>Blakeslea trispora</i> )	Carotene / Beta-carotene	5th Schedule (Part II), 7th Schedule	GMP
<b>160b</b>	<b>160b</b>	Annatto extracts	Annatto	5th Schedule (Part II)	GMP
<b>160b(i)</b>	<b>160b</b>	Annatto extracts, bixin-based	Annatto	5th Schedule (Part II)	GMP

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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
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

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<b>172(ii)</b>	<b>172</b>	Iron oxide, red	Iron oxide	5th Schedule (Part II)	GMP
<b>172(iii)</b>	<b>172</b>	Iron oxide, yellow	Iron oxide	5th Schedule (Part II)	GMP
<b>173</b>	<b>173</b>	Aluminium	Aluminium	5th Schedule (Part II)	GMP
<b>174</b>	<b>174</b>	Silver	Silver	5th Schedule (Part II)	GMP
<b>175</b>	<b>175</b>	Gold (metallic)	Gold	5th Schedule (Part II)	GMP
<b>200</b>	<b>200</b>	Sorbic acid	Sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>201</b>	-	Sodium sorbate	Sodium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>202</b>	<b>202</b>	Potassium sorbate	Potassium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule Part I	*
<b>203</b>	<b>203</b>	Calcium sorbate	Calcium salt of sorbic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>210</b>	<b>210</b>	Benzoic acid	Benzoic acid	Regulation 19(2)(b), 4th Schedule Part I	*
<b>211</b>	<b>211</b>	Sodium benzoate	Sodium salt of benzoic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>212</b>	<b>212</b>	Potassium benzoate	Potassium salt of benzoic acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>218</b>	<b>218</b>	Methyl para-hydroxybenzoate	Methyl para-hydroxybenzoate	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>219</b>	<b>219</b>	Sodium methyl para-hydroxybenzoate	Sodium salt of methyl para-hydroxybenzoate	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>220</b>	<b>220</b>	Sulfur dioxide	Sulphur dioxide	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>221</b>	<b>221</b>	Sodium sulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>222</b>	<b>222</b>	Sodium hydrogen sulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*

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<b>223</b>	<b>223</b>	Sodium metabisulfite	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>224</b>	<b>224</b>	Potassium metabisulphite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>225</b>	-	Potassium sulfite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>226</b>	<b>226</b>	Calcium sulfite	Calcium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>227</b>	<b>227</b>	Calcium hydrogen sulfite	Calcium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>228</b>	<b>228</b>	Potassium bisulfite	Potassium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>233</b>	-	Thiabendazole	Regulated as a pesticide for which maximum residue limits are specified under the Food Regulations	9th Schedule	*
<b>234</b>	<b>234</b>	Nisin	Nisin	Regulation 32(3)	*
<b>235</b>	<b>235</b>	Natamycin (Pimaricin)	Natamycin	Regulation 117(2)	*
<b>242</b>	<b>242</b>	Dimethyl dicarbonate	Dimethyl dicarbonate	Regulation 19(2)(c), 4th Schedule (Part II)	*
<b>249</b>	<b>249</b>	Potassium nitrite	Nitrite of potassium	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>250</b>	<b>250</b>	Sodium nitrite	Nitrite of sodium	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>251</b>	<b>251</b>	Sodium nitrate	Nitrate of sodium	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>252</b>	<b>252</b>	Potassium nitrate	Nitrate of potassium	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>260</b>	<b>260</b>	Acetic acid (glacial)	Acetic acid	Regulation 19(2)(a), 8th Schedule	GMP

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<b>261</b>	-	Potassium acetates	see INS 261(i) & (ii)		
<b>261(i)</b>	<b>261</b>	Potassium acetate	Potassium salt of acetic acid	Regulation 19(2)(a)	GMP
<b>261(ii)</b>	-	Potassium diacetate	Potassium salt of acetic acid	Regulation 19(2)(a)	GMP
<b>262</b>	<b>262</b>	Sodium acetates	see INS 262(i) & (ii)		
<b>262(i)</b>	-	Sodium acetate	Sodium acetate / Sodium salt of acetic acid	8th Schedule, Regulation 19(2)(a)	GMP
<b>262(ii)</b>	-	Sodium diacetate	Sodium salt of acetic acid	Regulation 19(2)(a)	GMP
<b>263</b>	<b>263</b>	Calcium acetate	Calcium salt of acetic acid	Regulation 19(2)(a)	GMP
<b>270</b>	<b>270</b>	Lactic acid (L-, D- and DL-)	Lactic acid	Regulation 19(2)(a), 8th Schedule	GMP
<b>280</b>	<b>280</b>	Propionic acid	Propionic acid	Regulation 19(2)(a)	GMP
<b>281</b>	<b>281</b>	Sodium propionate	Sodium salt of propionic acid	Regulation 19(2)(a)	GMP
<b>282</b>	<b>282</b>	Calcium propionate	Calcium salt of propionic acid	Regulation 19(2)(a)	GMP
<b>283</b>	<b>283</b>	Potassium propionate	Potassium salt of propionic acid	Regulation 19(2)(a)	GMP
<b>290</b>	<b>290</b>	Carbon dioxide	Carbon dioxide	Regulation 27(2), 8th Schedule	GMP
<b>296</b>	<b>296</b>	Malic acid (DL-)	Malic acid	Regulations 19(2)(a), 141, 173 and 174, 8th Schedule	GMP
<b>297</b>	<b>297</b>	Fumaric acid	Fumaric acid	8th Schedule	GMP
<b>300</b>	<b>300</b>	Ascorbic acid (L-)	Ascorbic acid	Regulation 17(2), 19(2)(a), 39(2)(d), 171,	GMP

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				172 & 174, 7th Schedule	
<b>301</b>	<b>301</b>	Sodium ascorbate	Sodium salt of ascorbic acid / Sodium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP
<b>302</b>	<b>302</b>	Calcium ascorbate	Calcium salt of ascorbic acid / Calcium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP
<b>303</b>	-	Potassium ascorbate	Potassium salt of ascorbic acid / Potassium ascorbate	Regulation 19(2)(a), 7th Schedule	GMP
<b>304</b>	<b>304(i)</b>	Ascorbyl palmitate	Ascorbyl palmitate / Ascorbyl-6-palmitate	3rd Schedule, 7th Schedule	*3rd Schedule
<b>307</b>	-	Tocopherols	Tocopherols	Regulation 17(2)	GMP
<b>307a</b>	<b>307</b>	Tocopherol, d-alpha	D-alpha tocopherol	7th Schedule	GMP
<b>307b</b>	<b>306</b>	Tocopherol concentrate, mixed	Tocopherols	Regulation 17(2)	GMP
<b>307c</b>	<b>307</b>	Tocopherol, dl-alpha	DL-alpha tocopherol	7th Schedule	GMP
<b>310</b>	<b>310</b>	Propyl gallate	Propyl gallate	3rd Schedule	*
<b>311</b>	<b>311</b>	Octyl gallate	Octyl gallate	3rd Schedule	*
<b>312</b>	<b>312</b>	Dodecyl gallate	Dodecyl gallate	3rd Schedule	*
<b>315</b>	<b>315</b>	Erythorbic acid (Isoascorbic acid)	Erythorbic acid	Regulations 17(2) & 19(2)(a)	GMP
<b>316</b>	<b>316</b>	Sodium erythorbate (Sodium isoascorbate)	Sodium salt of erythorbic acid	Regulation 19(2)(a)	GMP
<b>317</b>	-	Potassium isoascorbate	Potassium salt of erythorbic acid	Regulation 19(2)(a)	GMP
<b>318</b>	-	Calcium isoascorbate	Calcium salt of erythorbic acid	Regulation 19(2)(a)	GMP



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<b>319</b>	<b>319</b>	Tertiary butylhydroquinone	Tertiary butylhydroquinone (TBHQ)	3rd Schedule	*
<b>320</b>	<b>320</b>	Butylated hydroxyanisole	Butylated hydroxyanisole (BHA)	3rd Schedule	*
<b>321</b>	<b>321</b>	Butylated hydroxytoluene	Butylated hydroxytoluene (BHT)	3rd Schedule	*
<b>322(i)</b>	<b>322</b>	Lecithin	Lecithin	Regulation 17(2), 6th Schedule	GMP
<b>322(ii)</b>	-	Partially hydrolysed lecithin	Partially hydrolysed lecithin	6th Schedule	GMP
<b>324</b>	-	Ethoxyquin	Ethoxyquin	3rd & 9th Schedules	*
<b>325</b>	<b>325</b>	Sodium lactate	Sodium salt of lactic acid / Sodium lactate	Regulation 19(2)(a), 7th Schedule	GMP
<b>326</b>	<b>326</b>	Potassium lactate	Potassium salt of lactic acid / Potassium lactate	Regulation 19(2)(a), 7th Schedule	GMP
<b>327</b>	<b>327</b>	Calcium lactate	Calcium salt of lactic acid / Calcium lactate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
<b>329</b>	-	Magnesium lactate (DL-)	Magnesium lactate	8th Schedule	GMP
<b>330</b>	<b>330</b>	Citric acid	Citric acid	Regulations 17(2), 19(2)(a), 26(3), 125, 173 & 174, 8th Schedule	GMP
<b>331</b>	<b>331</b>	Sodium citrates	see INS 331(i), (ii) & (iii)		
<b>331(i)</b>	-	Sodium dihydrogen citrate	Sodium salt of citric acid	Regulation 19(2)(a)	GMP
<b>331(ii)</b>	-	Disodium monohydrogen citrate	Sodium salt of citric acid	Regulation 19(2)(a)	GMP
<b>331(iii)</b>	-	Trisodium citrate	Sodium salt of citric acid / Sodium citrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP

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<b>332</b>	<b>332</b>	Potassium citrates	see INS 332 (i) & (ii)		
<b>332(i)</b>	-	Potassium dihydrogen citrate	Potassium salt of citric acid	Regulation 19(2)(a)	GMP
<b>332(ii)</b>	-	Tripotassium citrate	Potassium salt of citric acid / Potassium citrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
<b>333</b>	<b>333</b>	Calcium citrates	see INS 333 (i), (ii) & (iii)		
<b>333(i)</b>	-	Monocalcium citrate	Calcium salt of citric acid	Regulation 19(2)(a) & 26(3)	GMP
<b>333(ii)</b>	-	Dicalcium citrate	Calcium salt of citric acid	Regulation 19(2)(a) & 26(3)	GMP
<b>333(iii)</b>	-	Tricalcium citrate	Calcium salt of citric acid / Calcium citrate	Regulation 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
<b>334</b>	<b>334</b>	Tartaric acid (L (+)-)	Tartaric acid	Regulations 19(2)(a), 26(3), 173 & 174, 8th Schedule	GMP
<b>335</b>	<b>335</b>	Sodium tartrates	see INS 335(i) & (ii)		
<b>335(i)</b>	-	Monosodium tartrate	Sodium salt of tartaric acid	Regulation 19(2)(a)	GMP
<b>335(ii)</b>	-	Sodium L(+) - tartrate	Sodium salt of tartaric acid / Sodium tartrate	Regulation 19(2)(a), 7th & 8th Schedules	GMP
<b>336</b>	<b>336</b>	Potassium tartrates	see INS 336(i) & (ii)		
<b>336(i)</b>	-	Monopotassium tartrate	Potassium salt of tartaric acid	Regulation 19(2)(a)	GMP
<b>336(ii)</b>	-	Dipotassium tartrate	Potassium salt of tartaric acid	Regulation 19(2)(a)	GMP
<b>337</b>	<b>337</b>	Potassium sodium L(+)-tartrate	Sodium potassium tartrate	8th Schedule	GMP

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<b>338</b>	<b>338</b>	Phosphoric acid	Phosphoric acid	Regulations 17(2), 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
<b>339</b>	<b>339</b>	Sodium phosphates	see INS 339(i), (ii) & (iii)		
<b>339(i)</b>	-	Sodium dihydrogen phosphate	Sodium salt of phosphoric acid / Sodium phosphate, monobasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP
<b>339(ii)</b>	-	Disodium hydrogen phosphate	Sodium salt of phosphoric acid / Sodium phosphate, dibasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP
<b>339(iii)</b>	-	Trisodium phosphate	Sodium salt of phosphoric acid / Sodium phosphate, tribasic	Regulation 19(2)(a), 6th, 7th & 8th Schedules	GMP
<b>340</b>	<b>340</b>	Potassium phosphates	see INS 340 (i), (ii) & (iii)		
<b>340(i)</b>	-	Potassium dihydrogen phosphate	Potassium salt of phosphoric acid / Potassium phosphate, monobasic	Regulation 19(2)(a), 6 <sup>th</sup> & 7th Schedules	GMP
<b>340(ii)</b>	-	Dipotassium hydrogen phosphate	Potassium salt of phosphoric acid / Potassium phosphate, dibasic	Regulation 19(2)(a), 6 <sup>th</sup> & 7th Schedules	GMP
<b>340(iii)</b>	-	Tripotassium phosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>341</b>	<b>341</b>	Calcium phosphates	see INS 341(i), (ii) & (iii)		
<b>341(i)</b>	-	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)

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<b>341(ii)</b>	-	Calcium hydrogen phosphate	Calcium salt of phosphoric acid / Calcium phosphate, dibasic	Regulations 19(2)(a) & 26(3), 7th & 8th Schedules	GMP
<b>341(iii)</b>	-	Tricalcium phosphate	Calcium salt of phosphoric acid / Calcium phosphate, tribasic	Regulations 19(2)(a) & 26(3), 6th, 7th & 8th Schedules	GMP
<b>342</b>	-	Ammonium phosphates	see INS 342(i) & (ii)		
<b>342(i)</b>	-	Ammonium dihydrogen phosphate	Ammonium phosphate, monobasic	8th Schedule	GMP
<b>342(ii)</b>	-	Diammonium hydrogen phosphate	Ammonium phosphate, dibasic	8th Schedule	GMP
<b>343(ii)</b>	-	Magnesium hydrogen phosphate	Magnesium phosphate, dibasic	7th Schedule	GMP
<b>343(iii)</b>	-	Trimagnesium phosphate	Magnesium phosphate, tribasic	7th Schedule	GMP
<b>345</b>	-	Magnesium citrate	Magnesium citrate	7th Schedule	GMP
<b>350</b>	<b>350</b>	Sodium malates	see INS 350(i) & (ii)		
<b>350(i)</b>	-	Sodium hydrogen DL-malate	Sodium salt of malic acid	Regulation 19(2)(a)	GMP
<b>350(ii)</b>	-	Sodium DL-malate	Sodium salt of malic acid	Regulation 19(2)(a)	GMP
<b>351</b>	-	Potassium malates	see INS 351(i) & (ii)		
<b>351(i)</b>	-	Potassium hydrogen malate	Potassium salt of malic acid	Regulation 19(2)(a)	GMP
<b>351(ii)</b>	<b>351</b>	Potassium malate	Potassium salt of malic acid	Regulation 19(2)(a)	GMP
<b>352</b>	<b>352</b>	Calcium malates	see INS 352(i) & (ii)		

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>352(i)</b>	-	Calcium hydrogen malate	Calcium salt of malic acid	Regulation 19(2)(a)	GMP
<b>352(ii)</b>	-	Calcium malate (D,L-)	Calcium salt of malic acid	Regulation 19(2)(a)	GMP
<b>354</b>	<b>354</b>	Calcium tartrate (DL-)	Calcium salt of tartaric acid	Regulations 19(2)(a) & 26(3)	GMP
<b>355</b>	<b>355</b>	Adipic acid	Adipic acid	8th Schedule	GMP
<b>363</b>	<b>363</b>	Succinic acid	Succinic acid	8th Schedule	GMP
<b>365</b>	-	Sodium fumarate	Sodium fumarate	8 <sup>th</sup> Schedule	GMP
<b>375</b>	-	Nicotinic acid	Nicotinic acid	7th Schedule	GMP
<b>380</b>	<b>380</b>	Triammonium citrate	Triammonium citrate	8th Schedule	GMP
<b>381</b>	-	Ferric ammonium citrate	Ferric ammonium citrate	7th Schedule	GMP
<b>383</b>	-	Calcium glycerophosphate	Calcium glycerophosphate	7th Schedule	GMP
<b>384</b>	-	Isopropyl citrates	Isopropyl citrate mixture (including monoisopropyl citrate)	3rd Schedule	*
<b>385</b>	<b>385</b>	Calcium disodium ethylenediaminetetra acetate	Calcium disodium ethylenediaminetetraacetate	Regulation 26(4)	*
<b>392</b>	<b>392</b>	Rosemary extract	Rosemary extract	3rd Schedule	*
<b>400</b>	<b>400</b>	Alginic acid	Alginic acid	6th Schedule	GMP
<b>401</b>	<b>401</b>	Sodium alginate	Sodium alginate	6th Schedule	GMP
<b>402</b>	<b>402</b>	Potassium alginate	Potassium alginate	6th Schedule	GMP
<b>403</b>	<b>403</b>	Ammonium alginate	Ammonium alginate	6th Schedule	GMP
<b>404</b>	<b>404</b>	Calcium alginate	Calcium alginate	6th Schedule	GMP

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<b>405</b>	<b>405</b>	Propylene glycol alginate	Propylene glycol alginate	6th Schedule	GMP
<b>406</b>	<b>406</b>	Agar	Agar	6th Schedule	GMP
<b>407</b>	<b>407</b>	Carrageenan <i>(includes furcelleran)</i>	Carrageenan and Furcelleran	6th Schedule	GMP
<b>407a</b>	<b>407a</b>	Processed eucheuma seaweed (PES)	Processed Eucheuma seaweed	6th Schedule	GMP
<b>409</b>	-	Arabinogalactan	Arabinogalactan (larch gum)	6th Schedule	GMP
<b>410</b>	<b>410</b>	Carob bean gum	Carob gum	6th Schedule	GMP
<b>412</b>	<b>412</b>	Guar gum	Guar gum	6th Schedule	GMP
<b>413</b>	<b>413</b>	Tragacanth gum	Tragacanth gum	6th Schedule	GMP
<b>414</b>	<b>414</b>	Gum arabic (Acacia gum)	Acacia gum	6th Schedule	GMP
<b>415</b>	<b>415</b>	Xanthan gum	Xanthan gum	6th Schedule	GMP
<b>416</b>	<b>416</b>	Karaya gum	Karaya gum	6th Schedule	GMP
<b>417</b>	<b>417</b>	Tara gum	Tara gum	6th Schedule	GMP
<b>418</b>	<b>418</b>	Gellan gum	Gellan gum	6th Schedule	GMP
<b>419</b>	-	Gum ghatti	Ghatti gum	6th Schedule	GMP
<b>420</b>	<b>420</b>	Sorbitols	See INS 420(i) and 420(ii)		
<b>420(i)</b>	<b>420</b>	Sorbitol	Sorbitol	8th Schedule	GMP
<b>420(ii)</b>	<b>420</b>	Sorbitol syrup	Sorbitol syrup	8th Schedule	GMP
<b>421</b>	<b>421</b>	Mannitol	Mannitol	8th Schedule	GMP
<b>422</b>	<b>422</b>	Glycerol	Glycerol / Glycerin or Glycerol	Regulation 22(2), 8th Schedule	GMP
<b>424</b>	-	Curdlan	Curdlan	6th Schedule	GMP

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>425</b>	<b>425</b>	Konjac flour	Konjac flour	6th Schedule	GMP
<b>432</b>	<b>432</b>	Polyoxyethylene (20) sorbitan monolaurate	Polyoxyethylene (20) sorbitan monolaurate (polysorbate 20)	6th Schedule	GMP
<b>433</b>	<b>433</b>	Polyoxyethylene (20) sorbitan monooleate	Polyoxyethylene (20) sorbitan mono-oleate (polysorbate 80)	6th Schedule	GMP
<b>434</b>	<b>434</b>	Polyoxyethylene (20) sorbitan monopalmitate	Polyoxyethylene (20) sorbitan mono-palmitate (polysorbate 40)	6th Schedule	GMP
<b>435</b>	<b>435</b>	Polyoxyethylene (20) sorbitan monostearate	Polyoxyethylene (20) sorbitan monostearate (polysorbate 60)	6th Schedule	GMP
<b>436</b>	<b>436</b>	Polyoxyethylene (20) sorbitan tristearate	Polyoxyethylene (20) sorbitan tristearate (polysorbate 65)	6th Schedule	GMP
<b>437</b>	-	Tamarind seed polysaccharide	Tamarind seed polysaccharide	6th Schedule	GMP
<b>440</b>	<b>440</b>	Pectins	Pectins, including amidated pectins	6th Schedule	GMP
<b>442</b>	<b>442</b>	Ammonium salts of phosphatidic acid	Ammonium phosphatides	Regulation 168(1)(ga)	*
<b>444</b>	<b>444</b>	Sucrose acetate isobutyrate	Sucrose acetate isobutyrate	Regulation 21(3)(b)	*
<b>445(iii)</b>	<b>445</b>	Glycerol ester of wood rosin	Ester gum	Regulation 21(3)(a)	*
<b>450</b>	<b>450</b>	Diphosphates	see INS 450(i) - (vii)		
<b>450(i)</b>	-	Disodium diphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>450(ii)</b>	-	Trisodium diphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>450(iii)</b>	-	Tetrasodium diphosphate	Sodium salt of phosphoric acid / Sodium pyrophosphate	Regulation 19(2)(a), 6th & 8th Schedules	GMP
<b>450(iv)</b>	-	Dipotassium diphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a)	GMP
<b>450(v)</b>	-	Tetrapotassium diphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>450(vi)</b>	-	Dicalcium diphosphate	Calcium salt of phosphoric acid / Calcium pyrophosphate	Regulation 19(2)(a), 6th & 7th Schedules	GMP
<b>450(vii)</b>	-	Calcium dihydrogen diphosphate	Calcium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>451</b>	<b>451</b>	Triphosphates	see INS 451(i) & (ii)		
<b>451(i)</b>	-	Pentasodium triphosphate	Sodium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>451(ii)</b>	-	Pentapotassium triphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>452</b>	<b>452</b>	Polyphosphates	see INS 452(i), (ii) & (iv)		
<b>452(i)</b>	-	Sodium polyphosphate	Sodium salt of phosphoric acid / Sodium hexametaphosphate	Regulations 19(2)(a), Regulation 100(c) 6th Schedule	* Regulation 100(c)
<b>452(ii)</b>	-	Potassium polyphosphate	Potassium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>452(iv)</b>	-	Calcium polyphosphate	Calcium salt of phosphoric acid	Regulation 19(2)(a) 6th Schedule	GMP
<b>457</b>	-	Cyclodextrin, alpha-	Cyclodextrin, alpha-	6th Schedule	GMP
<b>458</b>	-	Cyclodextrin, gamma-	Cyclodextrin, gamma-	6th Schedule	GMP
<b>459</b>	<b>459</b>	Cyclodextrin, beta-	beta-Cyclodextrin	Regulation 22(2)	GMP
<b>460</b>	<b>460</b>	Celluloses	see INS 460 (i) & (ii)		



<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>460(i)</b>	-	Microcrystalline cellulose (cellulose gel)	Cellulose	6th Schedule	GMP
<b>460(ii)</b>	-	Powdered cellulose	Cellulose	6th Schedule	GMP
<b>461</b>	<b>461</b>	Methyl cellulose	Methyl cellulose	6th Schedule	GMP
<b>462</b>	<b>462</b>	Ethyl cellulose	Ethyl cellulose	6th Schedule	GMP
<b>463</b>	<b>463</b>	Hydroxypropyl cellulose	Hydroxy propyl cellulose	6th Schedule	GMP
<b>464</b>	<b>464</b>	Hydroxypropyl methyl cellulose	Hydroxy propyl methyl cellulose	6th Schedule	GMP
<b>465</b>	<b>465</b>	Methyl ethyl cellulose	Methyl ethyl cellulose	6th Schedule	GMP
<b>466</b>	<b>466</b>	Sodium carboxymethyl cellulose (cellulose gum)	Carboxy methyl cellulose	6th Schedule	GMP
<b>467</b>	-	Ethyl hydroxyethyl cellulose	Ethyl hydroxyethyl cellulose	6th Schedule	GMP
<b>468</b>	<b>468</b>	Cross-linked sodium carboxymethyl cellulose (cross-linked cellulose gum)	Croscarmellose sodium	Regulation 18(5), 6th Schedule	GMP
<b>469</b>	<b>469</b>	Sodium carboxymethyl cellulose, enzymatically hydrolysed (cellulose gum, enzymatically hydrolysed)	Enzymatically hydrolysed sodium carboxymethyl cellulose (cellulose gum, enzymatically hydrolysed)	6th Schedule	GMP
<b>470(i)</b>	<b>470a</b>	Salts of myristic, palmitic and stearic acids with ammonia,	Ammonium, calcium, potassium or sodium myristate; Ammonium, calcium, potassium or sodium palmitate;	Regulation 16(3), Regulation 18(5) (applies to calcium stearate only), 6th Schedule	* Regulation 16(3)

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
		calcium, potassium and sodium	Ammonium, calcium, potassium or sodium stearate		
<b>470(ii)</b>	<b>470a</b>	Salts of oleic acid with calcium, potassium and sodium	Calcium, potassium or sodium oleate	Regulation 16(3), 6th Schedule	* Regulation 16(3)
<b>470(iii)</b>	-	Magnesium stearate	Magnesium stearate	Regulation 16(3), 8th Schedule	* Regulation 16(3)
<b>471</b>	<b>471</b>	Mono- and di-glycerides of fatty acids	Mono and diglycerides of fatty acids	6th Schedule	GMP
<b>472a</b>	<b>472a</b>	Acetic and fatty acid esters of glycerol	Acetylated mono-glycerides	6th Schedule	GMP
<b>472b</b>	<b>472b</b>	Lactic and fatty acid esters of glycerol	Glycerol esters of lactic acid	8th Schedule	GMP
<b>472c</b>	<b>472c</b>	Citric and fatty acid esters of glycerol	Citric acid glycerides / Glycerol esters of citric acid	6th & 8th Schedule	GMP
<b>472d</b>	<b>472d</b>	Tartaric acid esters of mono- and di-glycerides of fatty acids	Tartaric acid glycerides	6th Schedule	GMP
<b>472e</b>	<b>472e</b>	Diacetyltartaric and fatty acid esters of glycerol	Diacetyl tartaric acid glycerides	6th Schedule	GMP
<b>473</b>	<b>473</b>	Sucrose esters of fatty acids	Sucrose esters of fatty acids	8th Schedule	GMP
<b>475</b>	<b>475</b>	Polyglycerol esters of fatty acids	Polyglycerol esters of fatty acids	6th Schedule	GMP
<b>476</b>	<b>476</b>	Polyglycerol esters of interesterified ricinoleic acid	Polyglycerol polyricinoleate	6th Schedule	GMP

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>477</b>	<b>477</b>	Propylene glycol esters of fatty acids	Propylene glycol esters of fatty acids	6th Schedule	GMP
<b>480</b>	-	Diocetyl sodium sulfosuccinate	Diocetyl sodium sulphosuccinate	6th Schedule	GMP
<b>481(i)</b>	<b>481</b>	Sodium stearyl lactylate	Sodium salt of stearyl-2-lactylic acid	6th Schedule	GMP
<b>482(i)</b>	<b>482</b>	Calcium stearyl lactylate	Calcium salt of stearyl-2-lactylic acid	6th Schedule	GMP
<b>483</b>	<b>483</b>	Stearyl tartrate	Stearyl tartrate	6th Schedule	GMP
<b>491</b>	<b>491</b>	Sorbitan monostearate	Sorbitan monostearate	6th Schedule	GMP
<b>492</b>	<b>492</b>	Sorbitan tristearate	Sorbitan tristearate	6th Schedule	GMP
<b>493</b>	<b>493</b>	Sorbitan monolaurate	Sorbitan monolaurate	6th Schedule	GMP
<b>494</b>	<b>494</b>	Sorbitan monooleate	Sorbitan mono-oleate	6th Schedule	GMP
<b>495</b>	<b>495</b>	Sorbitan monopalmitate	Sorbitan mono-palmitate	6th Schedule	GMP
<b>500</b>	<b>500</b>	Sodium carbonates	see INS 500(i), (ii) & (iii)		
<b>500(i)</b>	-	Sodium carbonate	Sodium carbonate	Regulation 181, 7th & 8th Schedules	GMP
<b>500(ii)</b>	<b>500(ii)</b>	Sodium hydrogen carbonate	Sodium bicarbonate	7th & 8th Schedules	GMP
<b>500(iii)</b>	-	Sodium sesquicarbonate	Sodium sesquicarbonate	8th Schedule	GMP
<b>501</b>	<b>501</b>	Potassium carbonates	see INS 501(i) & (ii)		
<b>501(i)</b>	-	Potassium carbonate	Potassium carbonate	7th & 8th Schedules	GMP

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<b>501(ii)</b>	-	Potassium hydrogen carbonate	Potassium bicarbonate	7th & 8th Schedules	GMP
<b>503</b>	<b>503</b>	Ammonium carbonates	see INS 503(i) & (ii)		
<b>503(i)</b>	-	Ammonium carbonate	Ammonium carbonate	8th Schedule	GMP
<b>503(ii)</b>	-	Ammonium hydrogen carbonate	Ammonium bicarbonate	8th Schedule	GMP
<b>504(i)</b>	<b>504</b>	Magnesium carbonate	Magnesium carbonate	Regulation 16(3), 7th & 8th Schedules	* Regulation 16(3)
<b>504(ii)</b>	-	Magnesium hydroxide carbonate	Magnesium hydroxide carbonate	8th Schedule	GMP
<b>505</b>	-	Ferrous carbonate	Ferrous carbonate	7th Schedule	GMP
<b>507</b>	<b>507</b>	Hydrochloric acid	Hydrochloric acid	8th Schedule	GMP
<b>508</b>	<b>508</b>	Potassium chloride	Potassium chloride	7th & 8th Schedules	GMP
<b>509</b>	<b>509</b>	Calcium chloride	Calcium chloride	Regulation 211, 7th & 8th Schedules	* Regulation 211
<b>510</b>	-	Ammonium chloride	Ammonium chloride	Regulation 39(2)(f)	*
<b>511</b>	<b>511</b>	Magnesium chloride	Magnesium chloride	Regulation 211, 7th & 8th Schedules	*
<b>513</b>	<b>513</b>	Sulfuric acid	Sulphuric acid	8th Schedule	GMP
<b>514</b>	<b>514</b>	Sodium sulfates	See INS 514(i) & (ii)		
<b>514(i)</b>	-	Sodium sulfate	Sodium sulphate	7th & 8th Schedules	GMP
<b>514(ii)</b>	-	Sodium hydrogen sulfate	Sodium acid sulphate (sodium hydrogen sulphate)	8th Schedule	GMP
<b>515(i)</b>	<b>515</b>	Potassium sulfate	Potassium sulphate	8th Schedule	GMP

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<b>516</b>	<b>516</b>	Calcium sulfate	Calcium sulphate	Regulations 42 & 211, 7th & 8th Schedules	* Regulations 42 & 211
<b>517</b>	<b>517</b>	Ammonium sulfate	Ammonium sulphate	8th Schedule	GMP
<b>518</b>	-	Magnesium sulfate	Magnesium sulphate	7th & 8th Schedules	GMP
<b>519</b>	-	Cupric sulfate	Cupric sulphate	7th Schedule	GMP
<b>522</b>	<b>522</b>	Aluminium potassium sulfate	Aluminium potassium sulphate	Regulation 141(d)	*
<b>524</b>	<b>524</b>	Sodium hydroxide	Sodium hydroxide	7th & 8th Schedules	GMP
<b>525</b>	<b>525</b>	Potassium hydroxide	Potassium hydroxide	7th & 8th Schedules	GMP
<b>526</b>	<b>526</b>	Calcium hydroxide	Calcium hydroxide	7th & 8th Schedules	GMP
<b>527</b>	<b>527</b>	Ammonium hydroxide	Ammonium hydroxide	8th Schedule	GMP
<b>528</b>	<b>528</b>	Magnesium hydroxide	Magnesium hydroxide	7th & 8th Schedules	GMP
<b>529</b>	<b>529</b>	Calcium oxide	Calcium oxide	7th Schedule	GMP
<b>530</b>	<b>530</b>	Magnesium oxide	Magnesium oxide	7th & 8th Schedules	GMP
<b>535</b>	<b>535</b>	Sodium ferrocyanide	Sodium ferrocyanide	Regulation 16(4)	*
<b>536</b>	<b>536</b>	Potassium ferrocyanide	Potassium ferrocyanide	Regulation 16(4)	*
<b>539</b>	-	Sodium thiosulfate	Sodium salt of sulphurous acid	Regulation 19(2)(b), 4th Schedule (Part I)	*
<b>541</b>	-	Sodium aluminium phosphate	see INS 541(i) & (ii)		
<b>541(i)</b>	<b>541</b>	Sodium aluminium phosphate (acidic)	Sodium aluminium phosphate	8th Schedule	GMP
<b>541(ii)</b>	-	Sodium aluminium phosphate (basic)	Sodium aluminium phosphate	8th Schedule	GMP

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<b>542</b>	-	Bone phosphate	Edible bone phosphate	Regulation 16(3)	*
<b>551</b>	<b>551</b>	Silicon dioxide, amorphous	Silicon dioxide / Silica aerogel	Regulation 16(3), 8th Schedule	* Regulation 16(3)
<b>552</b>	<b>552</b>	Calcium silicate	Calcium silicate	Regulation 16(3)	*
<b>553</b>	<b>553a</b>	Magnesium silicates	see INS 553(i), (ii) and (iii)		
<b>553(i)</b>	-	Magnesium silicate, synthetic	Magnesium silicate (synthetic)	Regulation 16(3)	*
<b>553(ii)</b>	-	Magnesium trisilicate	Magnesium trisilicate	Regulation 16(3)	*
<b>553(iii)</b>	<b>553b</b>	Talc	Talc	Regulation 16(3)	*
<b>554</b>	<b>554</b>	Sodium aluminosilicate	Sodium aluminium silicate	Regulation 16(3)	*
<b>556</b>	<b>556</b>	Calcium aluminium silicate	Calcium aluminium silicate	Regulation 16(3)	*
<b>575</b>	<b>575</b>	Glucono delta-lactone	Glucono delta-lactone	8th Schedule	GMP
<b>576</b>	<b>576</b>	Sodium gluconate	Sodium gluconate	7th Schedule	GMP
<b>577</b>	<b>577</b>	Potassium gluconate	Potassium gluconate	7th Schedule	GMP
<b>578</b>	<b>578</b>	Calcium gluconate	Calcium gluconate	7th & 8th Schedules	GMP
<b>579</b>	<b>579</b>	Ferrous gluconate	Ferrous gluconate	7th Schedule	GMP
<b>580</b>	-	Magnesium gluconate	Magnesium gluconate	7th Schedule	GMP
<b>585</b>	<b>585</b>	Ferrous lactate	Ferrous lactate	7th Schedule	GMP
<b>620</b>	<b>620</b>	Glutamic acid, L(+)	L-glutamic acid	Regulation 23(2)	GMP
<b>621</b>	<b>621</b>	Monosodium L-glutamate	Monosodium L-glutamate / Monosodium salt of L-glutamic acid / Monosodium glutamate	Regulations 23(2), 23(3) & 246	GMP

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<b>622</b>	<b>622</b>	Monopotassium L-glutamate	Monopotassium L-glutamate	Regulation 23(2)	GMP
<b>623</b>	<b>623</b>	Calcium di-L-glutamate	Calcium di-L-glutamate	Regulation 23(2)	GMP
<b>624</b>	<b>624</b>	Monoammonium L-glutamate	Monoammonium L-glutamate	Regulation 23(2)	GMP
<b>625</b>	<b>625</b>	Magnesium di-L-glutamate	Magnesium di-L-glutamate	Regulation 23(2)	GMP
<b>626</b>	<b>626</b>	Guanylic acid, 5'-	Guanylic acid	Regulation 23(2)	GMP
<b>627</b>	<b>627</b>	Disodium 5'-guanylate	Disodium 5'-guanylate	Regulation 23(2)	GMP
<b>628</b>	<b>628</b>	Dipotassium 5'-guanylate	Dipotassium 5'-guanylate	Regulation 23(2)	GMP
<b>629</b>	<b>629</b>	Calcium 5'-guanylate	Calcium 5'-guanylate	Regulation 23(2)	GMP
<b>630</b>	<b>630</b>	Inosinic acid, 5'-	Inosinic acid	Regulation 23(2)	GMP
<b>631</b>	<b>631</b>	Disodium 5'-inosinate	Disodium 5'-inosinate	Regulation 23(2)	GMP
<b>632</b>	<b>632</b>	Potassium 5'-inosinate	Dipotassium 5'-inosinate	Regulation 23(2)	GMP
<b>633</b>	<b>633</b>	Calcium 5'-inosinate	Calcium 5'-inosinate	Regulation 23(2)	GMP
<b>634</b>	<b>634</b>	Calcium 5'-ribonucleotides	see INS 629 and INS 633 above		
<b>635</b>	<b>635</b>	Disodium 5'-ribonucleotides	see INS 627 and INS 631 above		
<b>637</b>	-	Ethyl maltol	Ethyl maltol	Regulation 23(2)	GMP
<b>640</b>	<b>640</b>	Glycine	Glycine	Regulation 26(3)	GMP
<b>650</b>	<b>650</b>	Zinc acetate	Zinc acetate	7th Schedule	GMP
<b>900a</b>	<b>900</b>	Polydimethylsiloxane	Dimethyl polysiloxane	Regulations 16A(3) & (4)	*

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<b>901</b>	<b>901</b>	Beeswax	Beeswax	8th Schedule	GMP
<b>902</b>	<b>902</b>	Candelilla wax	Candelilla wax	8th Schedule	GMP
<b>903</b>	<b>903</b>	Carnauba wax	Carnauba wax	8th Schedule	GMP
<b>904</b>	<b>904</b>	Shellac, bleached	Shellac	8th Schedule	GMP
<b>905a</b>	-	Mineral oil, food grade	White mineral oils	Regulation 36	*
<b>905b</b>	-	Petroleum jelly (Petrolatum)	Petroleum jellies	Regulation 36	*
<b>905c(i)</b>	<b>905</b>	Microcrystalline wax	Micro-crystalline waxes	Regulation 36	*
<b>905c(ii)</b>	-	Paraffin wax	Hard paraffins	Regulation 36	*
<b>917</b>	-	Potassium iodate	Potassium iodate	Regulation 212, 7th Schedule	* Regulation 212
<b>920</b>	<b>920</b>	Cysteine, L- and its hydrochlorides - sodium and potassium salts	Only L-cysteine is permitted	Regulation 23(2)	GMP
<b>922</b>	-	Potassium persulfate	Potassium persulphate	Regulation 39(2)(e)	*
<b>923</b>	-	Ammonium persulfate	Ammonium persulphate	Regulation 39(2)(e)	*
<b>925</b>	-	Chlorine	Chlorine	Regulation 39(3)	*
<b>926</b>	-	Chlorine dioxide	Chlorine dioxide	Regulation 39(3)	*
<b>928</b>	-	Benzoyl peroxide	Benzoyl peroxide	Regulation 39(3)	*
-	<b>939</b>	Helium	Helium	Regulation 27(2), 8th Schedule	*
<b>941</b>	<b>941</b>	Nitrogen	Nitrogen	Regulation 27(2), 8th Schedule	GMP
<b>942</b>	<b>942</b>	Nitrous oxide	Nitrous oxide	8th Schedule	GMP



<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>950</b>	<b>950</b>	Acesulfame potassium	Acesulfame-K	Regulation 18, 13th Schedule	*
<b>951</b>	<b>951</b>	Aspartame	Aspartame	8th Schedule	GMP (to note specific labelling requirements for food products containing aspartame in Regulation 5(4)(f))
<b>952</b>	<b>952</b>	Cyclamates	see INS 952(i), (ii) and (iv)		
<b>952(i)</b>	<b>952</b>	Cyclamic acid	Cyclamic acid	Regulation 18, 13th Schedule	*
<b>952(ii)</b>	<b>952</b>	Calcium cyclamate	Calcium salt of cyclamic acid	Regulation 18, 13th Schedule	*
<b>952(iv)</b>	<b>952</b>	Sodium cyclamate	Sodium salt of cyclamic acid	Regulation 18, 13th Schedule	*
<b>953</b>	<b>953</b>	Isomalt (Hydrogenated isomaltulose)	Isomalt	8th Schedule	GMP
<b>954</b>	<b>954</b>	Saccharins	see INS 954 (i), (ii), (iii) & (iv)		
<b>954(i)</b>	<b>954</b>	Saccharin	Saccharin	Regulation 18, 13th Schedule	*
<b>954(ii)</b>	<b>954</b>	Calcium saccharin	Calcium salt of saccharin	Regulation 18, 13th Schedule	*
<b>954(iii)</b>	<b>954</b>	Potassium saccharin	Potassium salt of saccharin	Regulation 18, 13th Schedule	*
<b>954(iv)</b>	<b>954</b>	Sodium saccharin	Sodium salt of saccharin	Regulation 18, 13th Schedule	*

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>955</b>	<b>955</b>	Sucralose (Trichlorogalactosucrose)	Sucralose	Regulation 18, 13th Schedule	*
<b>957</b>	<b>957</b>	Thaumatococin	Thaumatococin	8th Schedule	GMP
<b>960a</b>	<b>960</b>	Steviol glycosides	Steviol glycosides	Regulation 18, 13th Schedule	*
<b>960b(i)</b>	<b>-</b>	Rebaudioside A from multiple gene donors expressed in <i>Yarrowia lipolytica</i>	Rebaudioside A from multiple gene donors expressed in <i>Yarrowia lipolytica</i>	Regulation 18, 13th Schedule	*
<b>961</b>	<b>961</b>	Neotame	Neotame	Regulation 18, 13th Schedule	*
<b>964</b>	<b>964</b>	Polyglycitol syrup	Hydrogenated starch hydrolysate (polyglycitol syrup)	8th Schedule	GMP
<b>965</b>	<b>965</b>	Maltitols	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP
<b>965(i)</b>	<b>-</b>	Maltitol	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP
<b>965(ii)</b>	<b>-</b>	Maltitol syrup	Hydrogenated glucose syrup (maltitol and maltitol-based products)	8th Schedule	GMP
<b>966</b>	<b>966</b>	Lactitol	Lactitol	8th Schedule	GMP
<b>967</b>	<b>967</b>	Xylitol	Xylitol	8th Schedule	GMP
<b>968</b>	<b>968</b>	Erythritol	Erythritol	8th Schedule	GMP
<b>969</b>	<b>969</b>	Advantame	Advantame	Regulation 18(3A)	GMP
<b>999</b>	<b>999</b>	Quillaia extracts	Quillaia extracts	Regulation 21(3A)	*
<b>999(i)</b>	<b>999</b>	Quillaia extract type 1	Quillaia extract (Type I)	Regulation 21(3A)	*

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>999(ii)</b>	<b>999</b>	Quillaia extract type 2	Quillaia extract (Type II)	Regulation 21(3A)	*
<b>1001(iii)</b>	-	Choline chloride	Choline chloride	7th Schedule	GMP
<b>1001(v)</b>	-	Choline tartrate	Choline bitartrate	7th Schedule	GMP
<b>1100</b>	-	Amylases	Harmless preparation of enzymes obtained from <i>Aspergillus oryzae</i>	Regulation 39(2)(c), 8th Schedule	GMP
<b>1101</b>	-	Proteases	see INS 1101(i)		
<b>1101(i)</b>	-	Protease	Harmless preparation of enzymes obtained from <i>Aspergillus oryzae</i>	Regulation 39(2)(c), 8th Schedule	GMP
<b>1105</b>	<b>1105</b>	Lysozyme	Lysozyme	Regulation 117(1)	GMP
<b>1200</b>	<b>1200</b>	Polydextroses	Polydextrose	Regulation 252(6)(d), 8th Schedule	* Regulation 252(6)(d)
<b>1202</b>	<b>1202</b>	Polyvinylpyrrolidone, insoluble (polyvinylpolypyrrolidone)	Polyvinylpyrrolidone, insoluble (polyvinylpolypyrrolidone)	8th Schedule	GMP
<b>1204</b>	<b>1204</b>	Pullulan	Pullulan	8th Schedule	GMP
<b>1400</b>	-	Dextrins, roasted starch	Dextrin roasted starch	6th Schedule	GMP
<b>1401</b>	-	Acid-treated starch	Acid-treated starch	6th Schedule	GMP
<b>1402</b>	-	Alkaline treated starch	Alkaline-treated starch	6th Schedule	GMP
<b>1403</b>	-	Bleached starch	Bleached starch	6th Schedule	GMP
<b>1404</b>	<b>1404</b>	Oxidized starch	Oxidised starch	6th Schedule	GMP

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>1405</b>	-	Starches, enzyme treated	Enzyme-treated starch	6th Schedule	GMP
<b>1410</b>	<b>1410</b>	Monostarch phosphate	Monostarch phosphate	6th Schedule	GMP
<b>1412</b>	<b>1412</b>	Distarch phosphate	Distarch phosphate	6th Schedule	GMP
<b>1413</b>	<b>1413</b>	Phosphated distarch phosphate	Phosphated distarch phosphate	6th Schedule	GMP
<b>1414</b>	<b>1414</b>	Acetylated distarch phosphate	Acetylated distarch phosphate	6th Schedule	GMP
<b>1420</b>	<b>1420</b>	Starch acetate	Starch acetate	6th Schedule	GMP
<b>1422</b>	<b>1422</b>	Acetylated distarch adipate	Acetylated distarch adipate	6th Schedule	GMP
<b>1440</b>	<b>1440</b>	Hydroxypropyl starch	Hydroxypropyl starch	6th Schedule	GMP
<b>1442</b>	<b>1442</b>	Hydroxypropyl distarch phosphate	Hydroxypropyl distarch phosphate	6th Schedule	GMP
<b>1450</b>	<b>1450</b>	Starch sodium octenyl succinate	Starch sodium octenyl succinate	6th Schedule	GMP
<b>1451</b>	<b>1451</b>	Acetylated oxidized starch	Acetylated oxidised starch	6th Schedule	GMP
<b>1504(i)</b>	-	Cyclotetraglucose	Cyclotetraglucose	8th Schedule	GMP
<b>1504(ii)</b>	-	Cyclotetraglucose syrup	Cyclotetraglucose syrup	8th Schedule	GMP
<b>1505</b>	<b>1505</b>	Triethyl citrate	Triethyl citrate	Regulation 28(6)	*
<b>1517</b>	<b>1517</b>	Glycerol diacetate	Diacetin	Regulation 22(2)	GMP
<b>1518</b>	<b>1518</b>	Triacetin	Triacetin	Regulation 22(2)	GMP
<b>1519</b>	<b>1519</b>	Benzyl alcohol	Benzyl alcohol	Regulation 22(2)	GMP
<b>1520</b>	<b>1520</b>	Propylene glycol	Propylene glycol	Regulation 22(2), 8th Schedule	GMP

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>	<b>Name of additive as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Notes</b>
<b>1521</b>	<b>1521</b>	Polyethylene glycol	Polyethylene glycol	8th Schedule	GMP

## (B) Other Food Additives / ingredients

Notes:

- (1) Permitted enzymes are listed under Part 2 of the Eighth Schedule of the Food Regulations.
- (2) Flavouring agents, including both natural flavouring agents and synthetic flavouring essences or extracts are regulated under Regulation 22 of the Food Regulations. Flavouring agents do not include substances that impart a sweet taste to food; such substances would be regulated as sweetening agents under the Food Regulations. In principle, SFA has no objection to the use of flavouring substances that have been evaluated and endorsed by recognised international bodies such as the Joint FAO/WHO Expert Committee on Food Additives (JECFA), the Flavour and Extract Manufacturers' Association (FEMA), or the European Food Safety Authority (EFSA), under good manufacturing practice (GMP), provided that the flavouring preparations do not contain any of the prohibited substances listed under Regulation 22(7) of the Food Regulations.

Table 2: Other Food Additives / ingredients

<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
Acetone	Regulation 28(4) & 8th Schedule	* Regulation 28(4)
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

<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
Cyanocobalamin	7th Schedule	GMP
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)	*

<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
High fructose syrup	8th Schedule	GMP
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



<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
Methanol	Regulation 28(5)	*
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

Name of additive / ingredient as listed in Food Regulations	Regulation / Schedule No. (under Food Regulations)	Maximum level (mg/l or mg/kg as appropriate)
1,3-propanediol	Regulation 22	GMP
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	Regulation 18, 13 <sup>th</sup> Schedule	*
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>	Regulation 18, 13 <sup>th</sup> Schedule	*
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

<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
Sodium chloride	7th Schedule	GMP
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

<b>Name of additive / ingredient as listed in Food Regulations</b>	<b>Regulation / Schedule No. (under Food Regulations)</b>	<b>Maximum level (mg/l or mg/kg as appropriate)</b>
Vitamin A	Regulations 91(2)(a) & 252(3)(c), 7th Schedule	* Regulations 91(2)(a) & 252(3)(c)
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)**

Table 3: Food Additives Permitted for Use in Infant Formula (Regulation 252)

<b>INS Number</b>	<b>E Number</b>	<b>Food Additive Name</b>
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) New / revised food additive provisions

SFA has assessed and approved the following new / revised provisions for food additives. While the legislative amendments and gazette are being worked on by SFA, SFA has in the interim used the powers under the Sale of Food Act so that these provisions can take immediate effect on the dates shown below.

Table 4: New / revised provisions for food additives

S/N	INS No.	Food additive	Description	Maximum amount	Effective date
1	1210	Sodium polyacrylate	INS 1210 is currently not permitted under Regulations 15(1) and (4) of the Food Regulations. However, with effect from 5 May 2020, the import, manufacture for sale and sale of <b>instant noodles</b> which contains INS 1210 in an amount not exceeding <b>2000 ppm</b> is permitted.	2000 ppm in instant noodles	5 May 2020
2	--	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>	This enzymatically modified rebaudioside D is currently not permitted under Regulation 18(2) of the Food Regulations. However, with effect from 1 June 2020, the import, sale, advertisement, manufacture, consignment or delivery of: (a) the enzymatically modified rebaudioside D for use in food; and (b) food which contains the enzymatically modified rebaudioside D  are permitted, provided the enzymatically modified rebaudioside D is used in the food categories under the 13 <sup>th</sup> Schedule that are currently permitted to be added with steviol glycosides (INS 960a), up to the maximum amounts permitted for INS 960a.	Same as the maximum amounts permitted for steviol glycosides (INS 960a) under the 13 <sup>th</sup> Schedule	1 June 2020
3	--	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	This enzymatically modified rebaudioside E is currently not permitted under Regulation 18(2) of the Food Regulations. However, with effect from 1 June 2020, the import, sale, advertisement, manufacture, consignment or delivery of: (a) the enzymatically modified rebaudioside E for use in food; and	Same as the maximum amounts permitted for steviol glycosides (INS 960a) under the 13 <sup>th</sup> Schedule	1 June 2020

S/N	INS No.	Food additive	Description	Maximum amount	Effective date
		2.4.1.13), produced by genetically modified strains of <i>Pichia pastoris</i>	(b) food which contains the enzymatically modified rebaudioside D  are permitted, provided the enzymatically modified rebaudioside E is used in the food categories under the 13 <sup>th</sup> Schedule that are currently permitted to be added with steviol glycosides (INS 960a), up to the maximum amounts permitted for INS 960a.		
4	473a	Sucrose oligoesters, type I and type II	INS 473a is currently not permitted under Regulations 15(1) and 28(2) of the Food Regulations. However, with effect from 19 June 2020, (a) the import, manufacture for sale, and sale of food which contains INS 473a; and (b) the use of INS 473a as a general purpose food additive  are permitted, provided that INS 473a is used in accordance with good manufacturing practice (GMP) for food additives.	GMP	19 June 2020
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 synthase (EC 2.4.1.13), produced by genetically modified strains of <i>Escherichia coli</i> K- 12 W311	This enzymatically modified rebaudioside AM is currently not permitted under Regulation 18(2) of the Food Regulations. However, with effect from 14 July 2020, the import, sale, advertisement, manufacture, consignment or delivery of: (a) the enzymatically modified rebaudioside AM for use in food; and (b) food which contains the enzymatically modified rebaudioside AM  are permitted, provided the enzymatically modified rebaudioside AM is used in the food categories under the 13 <sup>th</sup> Schedule that are currently permitted to be added with steviol glycosides (INS 960a), up to the maximum amounts permitted for INS 960a.	Same as the maximum amounts permitted for steviol glycosides (INS 960a) under the 13 <sup>th</sup> Schedule	14 July 2020

S/N	INS No.	Food additive	Description	Maximum amount	Effective date
6	960a	Steviol glycosides	<p>INS 960a is currently not permitted in the following foods, in accordance with Regulation 18(2)(b) and the 13<sup>th</sup> Schedule. However, with effect from 6 August 2020, the import, sale, advertisement, manufacture, consignment or delivery of the following foods which contain INS 960a is permitted, provided that the amount of INS 960a does not exceed the corresponding maximum amount shown in Table 4.</p> <p>(i) Semi-preserved fish and fish products, including molluscs, crustaceans and echinoderms (applicable to sweet and sour products only)</p> <p>(ii) Fully preserved, including canned or fermented fish and fish products, including molluscs, crustaceans and echinoderms (applicable to sweet and sour products only)</p> <p>(iii) Semi-preserved caviar and other fish roe products</p> <p>(iv) Mustards</p> <p>(v) Soups and broths, including mixes</p> <p>(vi) Cocoa-based spreads, including fillings</p> <p>(vii) Bread and bakery products, and mixes for these products</p> <p>(viii) Flour confectionery products and mixes for these products (applicable to products for special nutritional use only)</p> <p>(ix) Vegetable, nut and seed pulps and preparations</p>	<p>(i) 100 ppm</p> <p>(ii) 100 ppm</p> <p>(iii) 100 ppm</p> <p>(iv) 130 ppm</p> <p>(v) 50 ppm</p> <p>(vi) 330 ppm</p> <p>(vii) 160 ppm</p> <p>(viii) 330 ppm</p> <p>(ix) 330 ppm</p>	6 August 2020



S/N	INS No.	Food additive	Description	Maximum amount	Effective date
7	--	2'-fucosyllactose/ difucosyllactose (2'-FL/DFL) mixture*  (* The 2'-FL/DFL mixture contains ≥75% (w/w) 2'-FL and ≥5% (w/w) DFL)	Regulation 252(6) currently does not permit the addition of the 2'-FL/DFL mixture in infant formula. However, with effect from 15 September 2020, the addition of the 2'-FL/DFL mixture to infant formula is permitted, provided that the 2'-FL/DFL mixture is added to infant formula in an amount not exceeding <ul style="list-style-type: none"> <li>• 160 mg per 100 ml (in the case of formulas for infants aged 0 – 6 months) and</li> <li>• 120 mg per 100 ml (in the case of formulas for infants aged 6 to 12 months)</li> </ul>	<i>The following maximum amounts apply to liquid infant formula, as well as to powdered infant formula that has been reconstituted according to the manufacturer's instructions.</i> <ul style="list-style-type: none"> <li>• 160 mg per 100 ml (infant formula for infants aged 0 – 6 months)</li> <li>• 120 mg per 100 ml (infant formula for infants aged 6 to 12 months)</li> </ul>	15 September 2020
8	200, 201, 202, 203, 210, 211, 212	Sorbic acid Sodium sorbate Potassium sorbate Calcium sorbate Benzoic acid Sodium benzoate Potassium benzoate	Sorbates (INS 200 – 203) and benzoates (INS 210 – 212) are currently not permitted in the category “Desserts, fruit based, milk and cream”, in accordance with Regulations 15(1), 19(3)(b)(i) and the 4 <sup>th</sup> Schedule of the Food Regulations. However, with effect from 12 November 2020, <p>(a) the import, manufacture for sale, and sale of food products belonging to the category “Desserts, fruit based, milk and cream” which contains sorbates (INS 200 – 203) and benzoates (INS 210 – 212); and</p> <p>(b) the import, sale, advertisement, manufacture, consignment or delivery of food products belonging to the category “Desserts, fruit based, milk and cream” which contains sorbates (INS 200 – 203) and benzoates (INS 210 – 212) as Class II chemical preservatives</p>	<ul style="list-style-type: none"> <li>• 1000 ppm for sorbates (INS 200 – 203), calculated as sorbic acid</li> <li>• 1000 ppm for benzoates (INS 210 – 212), calculated as benzoic acid</li> </ul> <p>If the same product contains both sorbates and benzoates, the restrictions under Regulation 19(3)(b)(ii) apply.</p>	12 November 2020

S/N	INS No.	Food additive	Description	Maximum amount	Effective date
			are permitted, provided that the amounts of sorbates (INS 200 – 203) and benzoates (INS 210 – 212) contained in the food do not exceed the corresponding maximum amounts shown in Table 4.		
9	--	Lacto-N-tetraose (LNT)	<p>Regulation 252(6) currently does not permit the addition of LNT in infant formula. However, with effect from 12 November 2020, the addition of LNT to infant formula is permitted, provided that the LNT is added to infant formula in an amount not exceeding</p> <ul style="list-style-type: none"> <li>• 0.8 g/L (in the case of formulas for infants aged 0 – 6 months) and</li> <li>• 0.6 g/L (in the case of formulas for infants aged 6 to 12 months)</li> </ul>	<p><i>The following maximum amounts apply to liquid infant formula, as well as to powdered infant formula that has been reconstituted according to the manufacturer's instructions.</i></p> <ul style="list-style-type: none"> <li>• 0.8 g/L (infant formula for infants aged 0 – 6 months)</li> <li>• 0.6 g/L (infant formula for infants aged 6 to 12 months)</li> </ul>	12 November 2020
10	--	Sodium salts of 3'-sialyllactose (3'-SL) and 6'-sialyllactose (6'-SL)	<p>Regulation 252(6) currently does not permit the addition of sodium salts of 3'-SL and 6'-SL in infant formula. However, with effect from 19 January 2021, the addition of sodium salts of 3'-SL and 6'-SL to infant formula is permitted, provided that the sodium salts of 3'-SL and 6'-SL are added to infant formula in amounts not exceeding</p> <p>(a) <u>Sodium salt of 3'-SL</u></p> <ul style="list-style-type: none"> <li>• 0.2 g/L (<u>expressed as 3'-SL</u>; in the case of formulas for infants aged 0 – 6 months) and</li> <li>• 0.15 g/L (<u>expressed as 3'-SL</u>; in the case of formulas for infants aged 6 to 12 months)</li> </ul> <p>(b) <u>Sodium salt of 6'-SL</u></p>	<p><i>The following maximum amounts apply to liquid infant formula, as well as to powdered infant formula that has been reconstituted according to the manufacturer's instructions.</i></p> <p>(a) <u>Sodium salt of 3'-SL</u></p> <ul style="list-style-type: none"> <li>• 0.2 g/L (<u>expressed as 3'-SL</u>; in the case of formulas for infants aged 0 – 6 months) and</li> <li>• 0.15 g/L (<u>expressed as 3'-SL</u>; in the case of formulas for infants aged 6 to 12 months)</li> </ul>	19 January 2021

S/N	INS No.	Food additive	Description	Maximum amount	Effective date
			<ul style="list-style-type: none"> <li>0.4 g/L (<u>expressed as 6'-SL</u>; in the case of formulas for infants aged 0 – 6 months) and</li> <li>0.3 g/L (<u>expressed as 6'-SL</u>; in the case of formulas for infants aged 6 to 12 months)</li> </ul>	<p>(b) Sodium salt of 6'-<u>SL</u></p> <ul style="list-style-type: none"> <li>0.4 g/L (<u>expressed as 6'-SL</u>; in the case of formulas for infants aged 0 – 6 months) and</li> <li>0.3 g/L (<u>expressed as 6'-SL</u>; in the case of formulas for infants aged 6 to 12 months)</li> </ul>	

### Revision history

- 17 Aug 2018 – Added footnote for nisin (INS 234).
- 17 Aug 2018 – Added entry for soy leghemoglobin derived from genetically modified *Pichia pastoris*.
- 16 Jan 2019 – Added footnote for steviol glycosides (INS 960a).
- 16 Jan 2019 – Added entry and footnote for monk fruit extract.
- 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.
- 27 Feb 2019 - Added footnote for sorbic acid (and its sodium, potassium and calcium salts) (INS 200, 201, 202, 203).
- 27 Feb 2019 – Added footnote for benzoic acid (and its sodium and potassium salts) (INS 210, 211, 212).
- 13 Mar 2019 – Added entry for Rebaudioside M produced by enzymatic modification of Rebaudioside A extracted from Stevia leaf.
- 21 Mar 2019 – Added footnote for rosemary extract (INS 392)
- 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*.
- 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”.
- 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 new / revised food additive provisions (items 18 - 22 above) and a new entry for use of steviol glycosides in 9 additional food categories) in a new Section D.
24. 5 Nov 2020 – Added entries for (i) 2'-fucosyllactose/difucosyllactose mixture in infant formula, (ii) sorbates (INS 200 – 203) and benzoates (INS 210 – 212) in “Desserts, fruit based, milk and cream” and (iii) lacto-N-tetraose in infant formula in Section D; revised the preamble for Section D and presentation of information and inserted titles for tables in Sections A, B, C and D.
25. 8 Dec 2020 – Added entry for “Rebaudioside A from multiple gene donors expressed in *Yarrowia lipolytica*” which was included in the Food Regulations via the Food (Amendment No. 3) Regulations 2020.
26. 12 Jan 2021 – Added entry for sodium salts of 3'-sialyllactose (3'-SL) and 6'-sialyllactose (6'-SL) in Section D.
27. 18 Feb 2021 – Revised text for preamble and added Note (2) for Permitted flavouring agents