

RESISTANCE LIST

OF

PRODUCT CARRIER TANK COATING

EPICON T-500	(Epoxy Paint)
EPICON T-800	(Phenol Epoxy Paint)
GALBON S-HB	(Inorganic Zinc Paint)

Only IBC Code Cargo

Jan. 2022

CMP
CHUGOKU MARINE PAINTS, LTD.

CHUGOKU TANK COATING SYSTEMS RESISTANCE LIST

Abbreviation

- A : Acceptable
- N : Not acceptable
- LA : Limitedly acceptable
- FS : Further specification needed
- NT : Not tested

General notes

Prior to use the Resistance List, please read all the information below carefully.

- * All the Products listed in the Resistance List are pure. Further examination is required if the product is modified or contains any kind of additives.
- * The information provided in the Resistance List is based on the product temperature of up to 35 °C.
- * Please follow the table below for certain products which require heating such as fats, vegetable and animal oils, crude oils, heavy oils etc.
- * With EPICON coating systems, loading of aggressive products such as EDC is not recommended after carrying products which require heating.
- * EPICON coating systems may be adversely affected due to thermal shock, when loading cargoes require heating. The temperature difference between the cargo tank coated with EPICON and adjacent tanks shall not exceed 40 °C.

Table: Maximum product temperatures

Crude oils	At all times	80 °C
	Short period	85 °C (Within 30 days)*1
Heavy oils *2	At all times	60 °C
	Short period	85 °C (Within 30 days)*1
Other cargoes require heating	At all times	60 °C
	Temporary heating	75 °C (Within 10 days)
Butterworthing		80 °C*3

*1 : The cooling period with the coating temperature at 60°C or lower must be given for more than 5 days after unloading.

*2 : It applies only to Heavy oils (C grade) which require heating.

*3 : Normal temperature is recommended when using chemicals.

*GALBON S-HB coating systems may be adversely affected by loading acid or alkaline products. The pH of the products must be within the range 6 – 10.

Glycols, glycerins and amines are often slow in volatilization, and are hygroscopic. White rust may occur, if the tank is NOT cleaned immediately after unloading such cargoes, followed by sufficient ventilation. Please be advised that rapid cleaning and adequate ventilation is always essential.

* After carriage of strong alkali such as Caustic soda, the tank must be cleaned thoroughly. Diluted solutions must not be left in the tank after completing the cleaning.

* When loading sensitive cargoes including edible, potable, and high purity products, the contamination such as odor, taste, or decrease in purity may be caused by solvents or previous cargoes left on the coating. Such products should be avoided in the early life of the coating system and after the carriage of products with strong smell.

* Before loading edible cargo for the first time after the delivery of the vessel, it is recommended to load non-edible cargoes as specified below:

A) For the first voyage after the delivery, heated cargo shall be loaded for at least 1 week,

B) In the case A) is not practicable, non-heated cargoes should be loaded for at least 2 voyages, preferably 3, after the delivery.

*The CHUGOKU(CMP)'s Resistance List is intended to indicate the coating resistance to cargoes, but not to guarantee the quality of cargoes being loaded. It shall be the buyer's and/or users' responsibility to ensure that the quality of cargoes complies with the requirements.

*Some products may cause surface discoloration of the coating which is difficult to be removed by tank cleaning operations, and then the contamination of subsequent cargo may occur. Discoloration is normally a surface phenomenon and in itself does not necessarily constitute a coating defect. CMP does not accept responsibility for coating discoloration and cannot be held liable for any aspect of cargo tank or cargo acceptance and consequences thereof.

*Inert gas systems should be regularly checked to maintain the specified level of Sulphur Oxide and Nitrogen Oxide, so that the coating damage is avoided and the coating life is extended.

*After unloading of low-boiling point (volatile) cargos subject to limitations LA1, LA4, LA12 and/or LA15, EPICON coated tank should be ventilated with a dry purging gas (e.g. nitrogen, dry air etc.) until the tank is in a steady state gas-free condition. A steady state gas-free condition is reached when product vapors are NOT detected after 8 hours from the completion of ventilation. The time needed to reach this steady-state gas-free condition is dependent on the nature of product, carriage conditions (time, temperature) and the ventilation capacity.

* The full recovery of EPICON coatings after unloading of products subject to limitations LA1, LA4, LA12 and/or LA15 can be confirmed by testing the pencil hardness in accordance with the below criteria.

EPICON T-500: > HB
EPICON T-800: > H

* For the products not listed herein, please contact CMP representative in your area.

* This list is subject to change without any notice.

Limitations

The numbers placed after LA in the Cargo Resistance List indicate the following limitations.

LA1) These products are aggressive to the coatings and should be avoided whenever possible. Continuous carriage of these cargoes should not exceed 30 days. After unloading LA1-products, the coating must be restored to its original condition, and then A-products may only be carried. LA-products should not be carried for at least 30 days after unloading of LA1-products.

LA3) Animal and vegetable oils contain free fatty acid (FFA) which is very aggressive towards tank coatings. The FFA content varies by the type of oil, or depending on the place of origin and the period of storage even with the same type of oil. The FFA content (determined by measuring the acid value) increases in the presence of water and/or when heated; the acid value and the water content of each product should not exceed the maximum values indicated in the following table.

Regarding heating, please read and follow the General notes on the RESISTANCE LIST. It is also important to note that no free mineral acid is permitted.

Continuous carriage of these products should not exceed 60 days under any circumstances. If the product is also with LA1 limitation, continuous carriage should not exceed 30 days as in accordance with the LA1 limitation.

Cargo tank coating	Maximum Acceptable Free Fatty Acid %	Maximum Acceptable Acid Value (ASTM D-1980 or equivalent)	Maximum Water content % by weight (ASTM E203 or equivalent)
GALBON S-HB	2	4	1
EPICON T-500	10	20	1
EPICON T-800	100	No Limit	1

With EPICON T-500 (EPICON T-500QD and EPICON T-500HS) however, the maximum FFA content is 5% (or an acid value of 10) if the application was carried out with the removal rate of inorganic zinc shop primer of less than 95%.

LA 4) Certain products such as esters, chlorinated or brominated materials and amines may react with water and form acidic compounds which will damage the coating. Such cargoes must therefore be free from moisture and carried in completely dry tanks which are protected against water leaks.

Water content should not exceed 0.01% (100ppm) (measured by ASTM E203 or equivalent using Karl-Fisher) by weight. These cargoes must be free from acids and carried in completely dry tanks. Subsequent water contamination must be avoided. Water washing of the tank is only acceptable after full recovery of the coating and should be avoided whenever possible.

After unloading these cargoes, the coating should be dried for a minimum period of 10 days before carrying LA-products (excluding LA1-products).

LA1-products may be carried after the coating has been dried for a minimum period of 30 days, in accordance with the restriction of LA1.

LA 5) These products are aggressive to the coatings and must NOT be heated at 40°C or higher.

- LA 6) To ensure the maximum coating life with GALBON S-HB, these cargoes are only acceptable if their pH is within the range 6 – 10.
 Fermentation products, such as molasses, are acidic in nature; therefore the tanks must be washed thoroughly after carriage of these cargoes.
 Diluted solutions of molasses may also ferment and form acids which will cause damage to the coating of GALBON S-HB. After washing the tank, these residues must be removed within 24 hours.
- LA 7) Crude oils may contain all kinds of acidic materials, and its amount varies depending on the place of origin. CMP should be consulted regarding the loading of crude oils beforehand.
- LA 8) These products will not cause breakdown of the coating, but product contamination should be noted.
- LA 9) The coating of GALBON S-HB is resistant to intermittent exposure to salt water and fresh water, but continuous carriage of these cargoes over a long period of time may reduce the life-span of the coating.
- LA12) These products are aggressive to the coating and may only be carried when the coating has been dried for at least 30 days (at 20 °C) after the application.
- LA15) Alcohol may damage the coating in the presence of moisture.
 Such products must therefore be free from moisture and carried in completely dry tanks which are protected against water leaks.
 After unloading these cargoes, the coating should be dried for a minimum period of 10 days before carrying LA-products (excluding LA1-products).
 LA1-products may be carried after the coating has been dried for a minimum period of 30 days, in accordance with the restriction of LA1.

For methanol product, each contaminant should not exceed below concentration.

- a. 0.1% of water by weight (measured by ASTM E203 or equivalent using Karl-Fisher)
- b. 100 ppm of acetaldehyde by weight (measured by EN 15721 or equivalent)
- c. 100 ppm of acetone by weight (measured by EN 15721 or equivalent)
- d. 100 ppm of total acids by weight (measured by ASTM D1613 or equivalent)

For ethanol product, each contaminant should not exceed below concentration.

- a. 1% of water by weight (measured by ASTM E203 or equivalent using Karl-Fisher)
- b. 1% of methanol by weight (measured by EN 15721 or equivalent)
- c. 300 ppm of acetaldehyde by weight (measured by EN 15721 or equivalent)
- d. 100 ppm of acetone by weight (measured by EN 15721 or equivalent)
- e. 100 ppm of total acids by weight (measured by ASTM D1613 or equivalent)

- LA16) These products are aggressive to the coating and should be avoided whenever possible. Continuous carriage of these cargoes should not exceed 14 days.
 After unloading LA16-products, the coating must be restored to its original condition, and then A-products may only be carried.
 LA-products should not be carried for at least 30 days after unloading LA16 products.

IBC Code

The IBC column numbers indicate:

- 0 : Product to which the Code does not apply
 - 1 : Product which can be loaded by the ship type I
 - 2 : Product which can be loaded by the ship type II
 - 2(k): Requirements for Ship type identified in column e might be subject to regulation 4.1.3 of Annex II of MARPOL 73/78
 - 3 : Product which can be loaded by the ship type III
 - 4 : Product of MEPC TRIPARTITE AGREEMENT
 - 5 : Product of MEPC TRIPARTITE AGREEMENT for all countries
 - 6 : Product of previous MEPC TRIPARTITE AGREEMENT
 - 7 : Product of previous MEPC TRIPARTITE AGREEMENT for all countries
- Blank : Product which is not listed by the IMO

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
1	Acetic acid	3	N	N	N
2	Acetic anhydride	2	N	N	N
3	Acetochlor	2	N	N	N
4	Acetone	0	N	LA1,4,12)	A
5	Acetone cyanohydrine	1	N	N	LA4)
6	Acetonitrile	3	N	LA4,12)	LA4)
7	Acetonitrile (Low purity grade)	3	N	LA4,12)	LA4)
8	Acid oil mixture from soyabean, corn (maize) and sunflower oil refining	2	N	LA1,3,12)	N
9	Acrylamide solution (50% or less)	3	N	N	N
10	Acrylic acid	2	N	N	N
11	Acrylic acid/ethenesulphonic acid copolymer with phosphonate groups, sodium salt solution	3	NT	NT	NT
12	Acrylonitrile	2	N	N	A
13	Acrylonitrile-Styrene copolymer dispersion in polyether polyol	3	NT	A	A
14	Adiponitrile	2	N	LA1,4)	LA4)
15	Alachlor technical (90% or more)	2	NT	NT	NT
16	Alcohol (C10-C18) poly (7) ethoxylate	3	A	A	A
17	Alcohol (C12-C16) poly (1-6) ethoxylates	2	A	A	A
18	Alcohol (C12-C16) poly (20+) ethoxylates	3	A	A	A
19	Alcohol (C12-C16) poly (7-19) ethoxylates	2	A	A	A
20	Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates	2	A	A	A
21	Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates	2	A	A	A
22	Alcohol (C9-C11) poly (2.5-9) ethoxylate	3	A	A	A
23	Alcoholic beverages, n.o.s	0	FS	FS	FS
24	Alcohols (C12+), primary, linear	2	A	A	A
25	Alcohols (C12-C13), primary, linear and essentially linear	2	A	A	A
26	Alcohols (C13+)	2	A	A	A
27	Alcohols (C14-C18), primary, linear and essentially linear	2	A	A	A
28	Alcohols (C8-C11), primary, linear and essentially linear	2	A	A	A
29	Alkanes (C10-C17), linear and branched	7	A	A	A
30	Alkanes (C10-C26), linear and branched (flashpoint<=60 deg C)	7	A	A	A
31	Alkanes (C4-C12) linear, branched and cyclic	6	A	A	A
32	Alkanes (C5-C7), linear and branched	7	A	A	A
33	Alkanes (C6-C9)	2	A	A	A
34	Alkanes (C9-C24), linear, branched and cyclic(flashpoint<=60 deg C)	6	A	A	A
35	Alkanes (C9-C24), linear, branched and cyclic(flashpoint>60 deg C)	6	A	A	A
36	Alkaryl polyethers (C9-C20)	2	NT	A	A
37	Alkenoic acid, polyhydroxy ester borated	2	NT	NT	NT
38	Alkenyl (C11+) amide	2	N	N	N
39	Alkenyl (C16-C20) succinic anhydride	3	NT	NT	NT
40	Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate	2	A	A	A
41	Alkyl (C10-C20, saturated and unsaturated) phosphite	2	N	N	N
42	Alkyl (C11-C17) benzene sulphonic acid	2	NT	NT	NT
43	Alkyl (C12+) dimethylamine	1	N	N	N
44	Alkyl (C12-C14) polyglucoside solution (55% or less)	3	NT	NT	NT
45	Alkyl (C12-C16) propoxyamine ethoxylate	2	NT	NT	NT
46	Alkyl (C18+) toluenes	2	A	A	A
47	Alkyl (C18-C28) toluenesulfonic acid	2	NT	NT	N
48	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated	3	NT	NT	NT
49	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, high overbase	3	NT	NT	NT
50	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, low overbase	2	NT	NT	NT
51	Alkyl (C3-C4) benzenes	2	A	A	A
52	Alkyl (C5-C8) benzenes	2	A	A	A
53	Alkyl (C7-C11) phenol poly (4-12) ethoxylate	2	NT	A	N
54	Alkyl (C7-C9) nitrates	2	NT	NT	NT
55	Alkyl (C8-C10) polyglucoside solution (65% or less)	3	NT	NT	NT
56	Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)	3	NT	NT	NT
57	Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	3	NT	NT	NT
58	Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less)	3	NT	NT	NT
59	Alkyl (C8-C40) phenol sulphide	3	NT	NT	NT
60	Alkyl (C8-C9) phenylamine in aromatic solvents	2	NT	NT	NT
61	Alkyl (C9+) benzenes	3	A	A	A
62	Alkyl (C9-C15) phenyl propoxylate	3	NT	NT	NT
63	Alkyl acrylate-vinylpyridine copolymer in toluene	2	NT	NT	NT
64	Alkyl benzene distillation bottoms	2	A	A	A
65	Alkyl benzene sulphonic acid, sodium salt solution	2	A	A	LA6)
66	Alkyl dithiocarbamate (C19-C35)	3	NT	NT	NT
67	Alkyl dithiothiadiazole (C6-C24)	3	NT	A	NT
68	Alkyl ester copolymer (C4-C20)	2	LA4)	A	LA4)
69	Alkyl sulphonic acid ester of phenol	3	N	NT	NT
70	Alkyl/cyclo (C4-C5) alcohols	3	LA1,12)	A	A
71	Alkylaryl phosphate mixtures (more than 40% diphenyl tolyl phosphate, less than 0.02% ortho-isomers)	2	LA4)	A	LA4)
72	Alkylated (C4-C9) hindered phenols	2	NT	NT	NT
73	Alkylbenzene mixtures (containing at least 50% of toluene)	3	A	A	A
74	Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	3	NT	A	A
75	Alkylbenzenes mixtures (containing naphthalene)	2	A	A	A

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
76	Alkylphenols (C10-C18, C12 rich)	5	A	A	A
77	Allyl alcohol	2	N	LA12,15)	A
78	Allyl chloride	2	N	N	LA4)
79	alpha-Methylbenzyl alcohol with acetophenone (15% or less)	2	N	A	A
80	alpha-Methylstyrene	2	A	A	A
81	Alpha-Olefin (C12+) mixtures	4	A	A	A
82	alpha-Olefins (C6-C18) mixtures	2	A	A	A
83	alpha-Pinene	2	A	A	A
84	Aluminium chloride/hydrogen chloride solution	2	N	N	N
85	Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	2	FS	FS	N
86	Aluminium sulphate solution	2	A	A	N
87	Aminoethyl ethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
88	Aminoethyldiethanolamine/Aminoethylethanolamine solution	3	N	N	N
89	Ammonia aqueous (28% or less)	2	N	A	N
90	Ammonium bisulphite solution (70% or less)	4	NT	NT	N
91	Ammonium chloride solution (less than 25%)(*)	3	A	A	N
92	Ammonium fluoride solution (40% or less)	4	NT	NT	NT
93	Ammonium hydrogen phosphate solution	3	A	A	N
94	Ammonium lignosulphonate solutions	3	A	A	N
95	Ammonium nitrate solution (93% or less)(*)	2	A	A	N
96	Ammonium polyphosphate solution	3	A	A	N
97	Ammonium sulphate solution	3	A	A	N
98	Ammonium sulphide solution (45% or less)(*)	2	N	N	N
99	Ammonium thiosulphate solution (60% or less)	3	NT	A	N
100	Amyl acetate (all isomers)	3	LA4)	LA4)	LA4)
101	Amyl alcohol, primary	3	A	A	A
102	Aniline	2	N	LA1,12)	LA1)
103	Apple juice	0	N	N	N
104	Aryl polyolefins (C11-C50)	2	A	A	A
105	Aviation alkylates (C8 paraffins and iso-paraffins bpt 95-120deg C)	2	A	A	LA8)
106	Barium long chain (C11-C50) alkaryl sulphonate	2	NT	A	NT
107	Benzene and mixtures having 10% benzene or more (i)	3	FS	A	FS
108	Benzene sulphonyl chloride	3	N	N	N
109	Benzenetricarboxylic acid, trioctyl ester	2	A	A	A
110	Benzyl acetate	2	N	LA4)	LA4)
111	Benzyl alcohol	3	N	LA12,15)	A
112	Benzyl chloride	2	N	LA1,4,12)	LA4)
113	beta-Pinene	2	A	A	A
114	beta-Propiolactone	1	N	N	N
115	Bio-fuel blends of Diesel/gas oil and Alkanes (C9-C24) linear, branched and cyclic with a flashpoint >60deg C (>25% but <99% by volume)	6	A	A	A
116	Bio-fuel blends of Diesel/gas oil and Alkanes (C9-C24) linear, branched and cyclic with a flashpoint ≤60deg C (>25% but <99% by volume)	6	A	A	A
117	Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)	2	LA3)	A	LA3)
118	Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume)	2	LA3)	A	LA3)
119	Bio-fuel blends of Gasoline and Alkanes (C4-C12) linear, branched and cyclic (>25% but <99% by volume)	6	A	A	A
120	Bio-fuel blends of gasoline and ethyl alcohol (>25% but <99% by volume)	2	N	FS	A
121	Bio-fuel blends of jet fuels and alkanes (C10-C17) linear, branched (>25% but <99% by volume)	7	A	A	LA8)
122	Bio-fuel blends of Naphtha and Alkanes (C4-C12) linear, branched and cyclic (>25% but <99% by volume)	6	A	A	A
123	Bis (2-ethylhexyl) terephthalate	2	A	A	A
124	Brake fluid base mix:Poly (2-8) alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	3	A	A	A
125	Brassica carinata oil	4	LA3)	A	LA3)
126	Bromochloromethane	3	N	N	LA4)
127	Butene oligomer	2	A	A	A
128	Butyl acetate (all isomers)	3	LA1,4,12)	LA4)	LA4)
129	Butyl acrylate (all isomers)	3	LA4)	A	LA4)
130	Butyl benzyl phthalate	2	A	A	A
131	Butyl butyrate (all isomers)	3	A	A	A
132	Butyl methacrylate	3	LA4)	A	LA4)
133	Butyl/decyl/cetyl/eicosyl methacrylate mixture	2	LA4)	A	LA4)
134	Butylamine (all isomers)	2	N	N	LA4)
135	Butylbenzene (all isomers)	2	A	A	A
136	Butylene glycol	3	A	A	A
137	Butyraldehyde (all isomers)	3	N	N	N
138	Butyric acid	3	N	N	N
139	Calcium alkaryl sulphonate (C11-C50)	3	NT	A	NT
140	Calcium alkyl (C10-C28) salicylate	2	A	A	LA4)
141	Calcium carbonate slurry	0	A	A	A
142	Calcium chloride solution (greater than 35%)	4	A	A	N
143	Calcium chloride solution(less than 35%)(*)	5	A	A	N
144	Calcium hydroxide slurry	2	A	A	N
145	Calcium hypochlorite soln (15% or less)	2	N	LA1,12)	N
146	Calcium hypochlorite solution (more than 15%)	1	N	LA1,12)	N
147	Calcium lignosulphonate solutions	3	A	A	N

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
148	Calcium long-chain alkyl (C11-C40) phenate	2	NT	NT	NT
149	Calcium long-chain alkyl (C18-C28) salicylate	2	A	A	LA4)
150	Calcium long-chain alkyl (C5-C10) phenate	3	NT	NT	NT
151	Calcium long-chain alkyl phenate sulphide (C8-C40)	2	NT	NT	NT
152	Calcium long-chain alkyl salicylate (C13+)	2	A	A	LA4)
153	Calcium nitrate solutions (50% or less)	3	A	A	N
154	Calcium nitrate/Magnesium nitrate/Potassium chloride solution	3	A	A	N
155	Camelina oil	2(k)	LA3)	A	LA3)
156	Carbolic oil	2	N	N	LA12)
157	Carbon disulphide	1	N	N	N
158	Carbon tetrachloride	2	LA1,4,12)	LA1,4)	LA4)
159	Cashew nut shell oil (untreated)	2	LA3)	A	LA3)
160	Castor oil	2(k)	LA3)	A	LA3)
161	Cesium formate solution (*)	3	NT	NT	NT
162	Cetyl/eicosyl methacrylate mixture	2	LA4)	A	LA4)
163	Chlorinated paraffins (C10-C13)	1	A	A	A
164	Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	1	A	A	A
165	Chloroacetic acid (80% or less)	2	N	N	N
166	Chlorobenzene	2	LA4)	LA4)	LA4)
167	Chloroform	3	N	N	N
168	Chlorohydrins (crude)	2	N	N	LA4)
169	Chlorosulphonic acid	1	N	N	N
170	Chlorotoluenes (mixed isomers)	2	N	LA1,4,12)	LA4)
171	Choline chloride solutions	3	A	A	N
172	Citric acid (70% or less)	3	A	A	N
173	Clay slurry	0	A	A	A
174	Coal slurry	0	A	A	LA6)
175	Coal tar	2	A	A	A
176	Coal tar naphtha solvent	2	A	A	A
177	Coal tar pitch (molten)**)	2	A	A	NT
178	Cocoa butter	2(k)	LA3)	A	LA3)
179	Coconut oil	2(k)	LA3)	A	LA3)
180	Coconut oil fatty acid	2	N	LA1,3,12)	N
181	Coconut oil fatty acid methyl ester	2	LA3)	A	LA3)
182	Concentrated filtrate of the neutralized reaction product of 5- [2-(methylthio) alkyl] imidazolidine-2,4-dione and potassium carbonate (Agrali)	4	NT	NT	NT
183	Copper salt of long chain (C17+) alkanolic acid	2	NT	NT	NT
184	Corn oil	2(k)	LA3)	A	LA3)
185	Cotton seed oil	2(k)	LA3)	A	LA3)
186	Cow milk	4	N	N	N
187	Creosote (coal tar)	1	N	N	N
188	Creosote (coal tar) (amended)	5	N	N	N
189	Creosote (coal tar)(C8-C22, MW116-278)	5	N	N	N
190	Cresol/Phenol/Xylenol mixture	2	N	N	N
191	Cresols (all isomers)	1	N	N	A
192	Cresylic acid, dephenolized	2	N	N	A
193	Cresylic acid, sodium salt solution	2	NT	NT	NT
194	Crotonaldehyde	1	N	N	N
195	Cycloheptane	2	A	A	A
196	Cyclohexane	2	A	A	A
197	Cyclohexane oxidation products, sodium salts solution	3	N	N	N
198	Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	2	A	A	LA4)
199	Cyclohexanol	2	A	A	A
200	Cyclohexanone	3	N	LA1,12)	A
201	Cyclohexanone, Cyclohexanol mixture	3	N	LA1,12)	A
202	Cyclohexyl acetate	3	LA4)	LA4)	LA4)
203	Cyclohexylamine	3	N	LA1,4,12)	LA4)
204	Cyclopentane	2	A	A	A
205	Cyclopentene	3	A	A	A
206	Decahydronaphthalene	2	A	A	A
207	Decanoic acid	2	N	LA1,3,5,12)	N
208	Decene	2	A	A	A
209	Decyl acrylate	1	LA4)	A	LA4)
210	Decyl alcohol (all isomers)	2	A	A	A
211	Decyl/dodecyl/tetradecyl alcohol mixture	2	A	A	A
212	Decyloxytetrahydrothiophene dioxide	2	NT	NT	NT
213	Di-(2-ethylhexyl) adipate	2	A	A	A
214	Di-(2-ethylhexyl) phosphoric acid	2	N	A	N
215	Diacetone alcohol	3	N	LA1,12)	A
216	Dialkyl (C7-C13) phthalates	2	A	A	A
217	Dialkyl (C8-C9) diphenylamines	3	N	N	N
218	Dialkyl (C9-C10) phthalates	2	A	A	A
219	Dialkyl thiophosphates sodium salts solution	2	NT	NT	A
220	Dibromomethane	2	N	N	N
221	Dibutyl hydrogen phosphonate	2	NT	NT	NT

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
222	Dibutyl phthalate	2	A	A	A
223	Dibutyl terephthalate	2	A	A	A
224	Dibutylamine	2	N	N	LA4)
225	Dichlorobenzene (all isomers)	2	N	LA4)	LA4)
226	Dichloroethyl ether	2	N	N	LA4)
227	Dichloromethane	3	N	N	LA4)
228	Dichloropropene/dichloropropane mixtures	2	N	N	LA4)
229	Dicyclopentadiene, resin grade, 81-89%	2	A	A	A
230	Diethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
231	Diethyl ether(*)	2	LA1,12)	LA12)	A
232	Diethyl phthalate	2	A	A	A
233	Diethyl sulphate	2	LA4)	LA4)	N
234	Diethylamine	3	N	N	LA4)
235	Diethylaminoethanol	2	LA1,4,12)	LA1,4,12)	LA4)
236	Diethylbenzene	2	A	A	A
237	Diethylene glycol	3	A	A	A
238	Diethylene glycol dibutyl ether	3	N	LA1,12)	A
239	Diethylene glycol diethyl ether	3	N	LA1,12)	A
240	Diethylene glycol phthalate	3	A	A	A
241	Diethylenetriamine	3	N	N	LA1,4)
242	Diethylenetriaminepentaacetic acid, pentasodium salt solution	3	A	A	N
243	Diglycidyl ether of bisphenol A	2	A	A	A
244	Diglycidyl ether of bisphenol F	2	A	A	A
245	Diheptyl phthalate	2	A	A	A
246	Dihexyl phthalate	2	A	A	A
247	Diisobutyl ketone	3	LA1,12)	A	A
248	Diisobutyl phthalate	2	A	A	A
249	Diisobutylamine	2	N	N	LA4)
250	Diisobutylene	2	A	A	A
251	Diisononyl adipate	2	A	A	A
252	Diisooctyl phthalate	2	A	A	A
253	Diisopropanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
254	Diisopropylamine	3	N	N	N
255	Diisopropylbenzene (all isomers)	2	A	A	A
256	Diisopropyl-naphthalene	2	A	A	A
257	Dimethyl adipate	2	A	A	A
258	Dimethyl disulphide	2	N	N	N
259	Dimethyl glutarate	3	A	A	A
260	Dimethyl hydrogen phosphite	3	N	N	N
261	Dimethyl octanoic acid	2	N	LA1,3,5,12)	N
262	Dimethyl phthalate	3	A	A	A
263	Dimethyl succinate	2	A	A	A
264	Dimethylamine solution (45% or less)	3	N	N	N
265	Dimethylamine solution (greater than 45% but not greater than 55%)	3	N	N	N
266	Dimethylamine solution (greater than 55% but not greater than 65%)	3	N	N	N
267	Dimethylethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
268	Dimethylformamide	3	N	N	LA4)
269	Dimethylpolysiloxane	2	NT	A	NT
270	Di-n-hexyl adipate	1	A	A	A
271	Dinitrotoluene (molten)	2	N	N	N
272	Dinonyl phthalate	2	A	A	A
273	Di-n-propylamine	2	N	N	N
274	Dioctyl phthalate	2	A	A	A
275	Dipentene	2	A	A	A
276	Diphenyl	2	A	A	A
277	Diphenyl ether	2	LA1,12)	A	A
278	Diphenyl ether/diphenyl phenyl ether mixture	2	LA1,12)	A	A
279	Diphenyl/diphenyl ether mixtures	2	LA1,12)	A	A
280	Diphenylamine (molten)	2	N	LA1,4,12)	LA1)
281	Diphenylamine, reaction product with 2,2,4-trimethylpentene	2	NT	NT	NT
282	Diphenylamines, alkylated	2	N	N	N
283	Diphenylmethane diisocyanate	2	A	A	A
284	Diphenylol propane-epichlorohydrin resins	2	NT	A	NT
285	Dipropylene glycol	3	A	A	A
286	Dithiocarbamate ester (C7-C35)	2	NT	NT	NT
287	Ditridecyl adipate	2	A	A	A
288	Ditridecyl phthalate	2	A	A	A
289	Diundecyl phthalate	2	A	A	A
290	Dodecane (all isomers)	2	A	A	A
291	Dodecene (all isomers)	2	A	A	A
292	Dodecyl alcohol	2	A	A	A
293	Dodecyl diphenyl ether disulphonate solution	2	NT	NT	NT
294	Dodecyl hydroxypropyl sulphide	2	N	NT	NT
295	Dodecyl methacrylate	3	LA4)	A	LA4)
296	Dodecyl phenol	2	A	A	A

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297	Dodecyl xylene	2	A	A	A
298	Dodecyl/octadecyl methacrylate (mixture)	2	LA4)	A	LA4)
299	Dodecyl/pentadecyl methacrylate mixture	2	LA4)	A	LA4)
300	Dodecylamine/tetradecylamine mixture	2	N	N	LA4)
301	Dodecylbenzene	2	A	A	A
302	Drilling brines (containing calcium bromide)	3	A	A	LA9)
303	Drilling brines (containing zinc chloride)	2	A	A	LA9)
304	Epichlorohydrin	2	N	N	LA4)
305	epsilon-Caprolactam (molten or aqueous solutions)	3	N	N	N
306	Ethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
307	Ethoxylated long chain (C16+) alkyloxyalkylamine	2	NT	NT	NT
308	Ethoxylated tallow amine (>95%)	2	N	N	LA4)
309	Ethyl acetate	3	N	LA4)	LA4)
310	Ethyl acetoacetate	3	N	LA1,4,12)	LA4)
311	Ethyl acrylate	2	LA4)	A	LA4)
312	Ethyl alcohol	0	N	LA12,15)	A
313	Ethyl amyl ketone	2	LA1,12)	LA12)	A
314	Ethyl butyrate	2	A	A	A
315	Ethyl methacrylate	3	LA4)	A	LA4)
316	Ethyl propionate	3	LA4)	A	LA4)
317	Ethyl tert-butyl ether	2	A	A	A
318	Ethyl tert-butyl ether (amended)	5	A	A	A
319	Ethyl toluene	2	A	A	A
320	Ethyl-3-ethoxypropionate	2	LA4)	A	LA4)
321	Ethylamine solutions (72% or less)	3	N	N	N
322	Ethylamine(*)	2	N	N	N
323	Ethylbenzene	2	A	A	A
324	Ethylcyclohexane	2	A	A	A
325	Ethylene carbonate	3	LA4,12)	A	LA4)
326	Ethylene chlorohydrin	1	N	N	N
327	Ethylene cyanohydrin	2	N	N	N
328	Ethylene dibromide	2	N	N	LA4)
329	Ethylene dichloride	2	N	LA1,4,12)	LA4)
330	Ethylene glycol	3	A	A	A
331	Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture	3	A	A	N
332	Ethylene glycol (>85%)/sodium alkyl carboxylates mixture	3	A	A	N
333	Ethylene glycol acetate	3	N	LA4)	LA4)
334	Ethylene glycol butyl ether acetate	3	N	LA4)	LA4)
335	Ethylene glycol diacetate	2	N	LA4)	LA4)
336	Ethylene glycol methyl ether acetate	3	N	LA4)	LA4)
337	Ethylene glycol monoalkyl ethers	3	N	LA1,12)	A
338	Ethylene glycol phenyl ether	3	N	LA1,12)	A
339	Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	3	N	LA1,12)	A
340	Ethylene oxide/propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	2	N	N	N
341	Ethylenediamine	2	N	N	LA1,4)
342	Ethylenediamine tetraacetic acid, tetrasodium salt solution	3	A	A	N
343	Ethylene-vinyl acetate copolymer (emulsion)	3	NT	NT	NT
344	Ethylidene norbornene	2	A	A	A
345	Fatty acid (saturated C13+)	2	N	LA1,3,12)	N
346	Fatty acid methyl esters (m)	2	LA3)	A	LA3)
347	Fatty acids, (C12+)	2	N	LA1,3,12)	N
348	Fatty acids, (C16+)	2	N	LA1,3,12)	N
349	Fatty acids, (C8-C10)	2	N	LA1,3,5,12)	N
350	Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester	2	LA3)	A	LA3)
351	Ferric chloride solutions	3	NT	A	N
352	Ferric nitrate/nitric acid solution	2	NT	NT	N
353	Fish oil	2(k)	LA3)	A	LA3)
354	Fish protein concentrate (containing 4% or less formic acid)	3	N	N	N
355	Fish silage protein concentrate (containing 4% or less formic acid)	2	N	N	N
356	Fluorosilicic acid solution (20-30%)	3	N	N	N
357	Formaldehyde solutions (45% or less)	3	N	LA1,12)	N
358	Formamide	3	N	N	N
359	Formic acid (85% or less acid)	3	N	N	N
360	Formic acid (over 85%)	3	N	N	N
361	Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	3	N	N	N
362	Furfural	3	N	LA1,12,15)	N
363	Furfuryl alcohol	3	N	LA1,12,15)	A
364	gamma-Butyrolactone	3	N	LA1,12)	N
365	Glucitol/glycerol blend propoxylated (containing 10% or more amines)	2	NT	NT	LA4)
366	Glucitol/glycerol blend propoxylated (containing less than 10% amines)	3	NT	NT	A
367	Glucitol/Glycerol blend propoxylated and ethoxylated	4	NT	NT	LA4)
368	Glucose solution	0	A	A	N
369	Glutaraldehyde solutions (50% or less)	3	N	N	N
370	Glycerine	3	A	A	A
371	Glycerol ethoxylated	0	A	A	A

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372	Glycerol monooleate	2	A	A	A
373	Glycerol propoxylated	3	A	A	A
374	Glycerol, propoxylated and ethoxylated	3	A	A	A
375	Glycerol/sucrose blend propoxylated and ethoxylated	3	A	A	A
376	Glyceryl triacetate	3	LA1,4,12)	LA4,12)	LA4)
377	Glycidyl ester of C10 trialkylacetic acid	2	A	A	A
378	Glycine, sodium salt solution	3	NT	NT	NT
379	Glycolic acid solution (70% or less)	3	N	A	N
380	Glyoxal solution (40% or less)	3	N	A	N
381	Glyoxylic acid solution (50% or less)	3	N	N	N
382	Glyphosate solution (not containing surfactant)	2	NT	NT	NT
383	Grape seed oil	2(k)	LA3)	A	LA3)
384	Groundnut oil	2(k)	LA3)	A	LA3)
385	Heptane (all isomers)	2	A	A	A
386	Heptanol (all isomers)(d)	3	A	A	A
387	Heptene (all isomers)	2	A	A	A
388	Heptyl acetate	2	LA4)	LA4)	LA4)
389	Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	5	NT	NT	NT
390	Hexamethylene diisocyanate	2	A	A	A
391	Hexamethylene glycol	3	A	A	A
392	Hexamethylenediamine (molten)	3	N	N	N
393	Hexamethylenediamine adipate (50% in water)	3	A	A	N
394	Hexamethylenediamine solution	3	N	N	N
395	Hexamethyleneimine	2	N	N	N
396	Hexamethylenetetramine solutions	3	N	N	N
397	Hexane (all isomers)	2	A	A	A
398	Hexanoic acid	3	N	N	N
399	Hexanol	2	A	A	A
400	Hexene (all isomers)	3	A	A	A
401	Hexyl acetate	2	LA4)	LA4)	LA4)
402	Hexylene glycol	3	A	A	A
403	Hydrocarbon wax	2	FS	FS	FS
404	Hydrochloric acid (*)	3	N	N	N
405	Hydrogen peroxide solutions (over 60% but not over 70% by mass)	2	N	N	N
406	Hydrogen peroxide solutions (over 8% but not over 60% by mass)	3	N	N	N
407	Hydrogenated starch hydrolysate	0	N	N	N
408	Illipe oil	2(k)	LA3)	A	LA3)
409	Iso- and cyclo-alkanes (C10-C11)	3	A	A	A
410	Iso- and cyclo-alkanes (C12+)	3	A	A	A
411	Isoalkanes (C16-C18)	5	A	A	A
412	Isoamyl alcohol	3	A	A	A
413	Isobutyl alcohol	3	LA1,12)	A	A
414	Isobutyl formate	3	N	LA4)	LA4)
415	Isobutyl methacrylate	3	LA4)	A	LA4)
416	Isophorone	3	N	N	A
417	Isophorone diisocyanate	2	A	A	A
418	Isophoronediamine	3	N	N	N
419	Isoprene	2	A	A	A
420	Isopropanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
421	Isopropyl acetate	3	N	LA4)	LA4)
422	Isopropyl alcohol	0	LA1,12,15)	LA12,15)	A
423	Isopropyl ether	3	LA1,12)	A	A
424	Isopropylamine	3	N	N	N
425	Isopropylamine (70% or less) solution	3	N	N	N
426	Isopropylcyclohexane	2	A	A	A
427	Jatropha oil	2(k)	LA3)	A	LA3)
428	Kaolin slurry	0	A	A	A
429	Lactic acid	3	N	N	N
430	Lactonitrile solution (80% or less)	1	NT	NT	NT
431	Lard	2(k)	LA3)	A	LA3)
432	Latex : Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber	3	FS	FS	N
433	Latex, ammonia (1% or less)-inhibited	2	A	A	N
434	Lauric acid	2	N	LA1,3,12)	N
435	Lecithin	0	A	A	N
436	Lignin sulphonic acid, magnesium salt solution	3	A	A	N
437	Lignin sulphonic acid, sodium salt solution	3	A	A	N
438	Linseed oil	2(k)	LA3)	A	LA3)
439	Liquid chemical wastes	2	FS	FS	FS
440	L-Lysine solution (60% or less)	3	N	NT	N
441	Long chain alkylphenol (C14-C18)	2	A	A	A
442	Long chain alkylphenol (C18-C30)	2	A	A	A
443	Long-chain alkaryl polyether (C11-C20)	2	A	A	A
444	Long-chain alkaryl sulphonic acid (C16-C60)	2	NT	A	N
445	Long-chain alkylphenate/phenol sulphide mixture	2	NT	NT	NT
446	Magnesium chloride solution	3	A	A	N

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447	Magnesium hydroxide slurry	3	A	A	N
448	Magnesium long-chain alkaryl sulphonate (C11-C50)	2	NT	NT	NT
449	Magnesium long-chain alkyl salicylate (C11+)	2	LA4)	A	LA4)
450	Maleic anhydride	3	N	N	N
451	Maleic anhydride-sodium allylsulphonate copolymer solution	3	N	N	N
452	Maltitol solution	0	N	N	N
453	Mango kernel oil	2(k)	LA3)	A	LA3)
454	m-Chlorotoluene	2	N	LA1,4,12)	LA4)
455	Mercaptobenzothiazol, sodium salt solution	2	NT	A	NT
456	Mesityl oxide	3	N	A	A
457	metam Sodium solution	2	NT	NT	NT
458	Methacrylic acid	3	N	N	N
459	Methacrylic acid - alkoxy poly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	3	NT	NT	NT
460	Methacrylic resin in ethylene dichloride	3	LA1,4,12)	LA1,4,12)	LA4)
461	Methacrylonitrile	2	N	N	LA4)
462	Methyl acetate	3	N	LA4,12)	LA4)
463	Methyl acetoacetate	3	N	LA1,4,12)	N
464	Methyl acrylate	3	LA4)	LA4)	LA4)
465	Methyl alcohol(*)	3	N	LA1,12,15)	A
466	Methyl amyl ketone	3	LA1,12)	LA1,12)	A
467	Methyl butyl ketone	3	N	LA1,12)	A
468	Methyl butynol	3	N	A	A
469	Methyl butyrate	3	A	A	A
470	Methyl diethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
471	Methyl ethyl ketone	3	N	LA1,12)	A
472	Methyl formate	2	N	N	LA4)
473	Methyl isobutyl ketone	3	LA1,12)	LA12)	A
474	Methyl methacrylate	3	LA4)	LA4)	LA4)
475	Methyl naphthalene (molten)	2	A	A	A
476	Methyl propyl ketone	3	LA12)	A	A
477	Methyl salicylate	3	A	A	LA4)
478	Methyl tert-butyl ether	3	A	A	A
479	Methylamine solutions (42% or less)	2	N	N	N
480	Methylamyl acetate	2	LA4)	LA4)	LA4)
481	Methylamyl alcohol	3	A	A	A
482	Methylbutenol	3	A	A	A
483	Methylcyclohexane	2	A	A	A
484	Methylcyclopentadiene dimer	2	A	A	A
485	Methylcyclopentadienyl manganese tricarbonyl	2	NT	NT	NT
486	Microsilica slurry	0	A	A	FS
487	Molasses	0	A	A	LA6)
488	Molybdenum polysulfide long chain alkyl dithiocarbamide complex	2	NT	NT	NT
489	Morpholine	3	N	N	LA4)
490	Motor fuel anti-knock compounds (containing lead alkyls)	1	NT	NT	NT
491	Myrcene	2	A	A	A
492	N-(2-methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide	1	NT	NT	NT
493	N-(hydroxyethyl) ethylenediaminetriacetic acid, trisodium salt solution	3	A	A	N
494	N,N-dimethylacetamide	3	N	N	N
495	N,N-dimethylacetamide solution (40% or less)	3	N	N	N
496	N,N-dimethylcyclohexylamine	2	N	LA1,4,12)	LA4)
497	N,N-dimethyldodecylamine	2	N	N	LA4)
498	N-alkanes (C10-C20)	2	A	A	A
499	N-alkanes (C9-C11)	3	A	A	A
500	N-aminoethylpiperazine	3	N	N	LA4)
501	N-amyl alcohol	2	A	A	A
502	Naphthalene (molten)	2	N	N	N
503	Naphthalene crude (molten)	2	N	N	N
504	Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	3	NT	A	N
505	N-butyl alcohol	0	LA1,12)	A	A
506	N-butyl ether	3	LA1,12)	LA12)	A
507	N-butyl propionate	3	LA4)	A	LA4)
508	N-dodecyl mercaptan	1	N	LA1,12)	N
509	Neodecanoic acid	2	N	LA1,3,5,12)	N
510	N-ethylcyclohexylamine	2	N	LA1,4,12)	LA4)
511	N-ethylmethylallylamine	2	NT	NT	NT
512	N-heptanoic acid	3	N	N	N
513	Nitrating acid (mixture of sulphuric and nitric acids)	1	N	N	N
514	Nitric acid (70% and over)	2	N	N	N
515	Nitric acid (less than 70%)	2	N	N	N
516	Nitrioltriacetic acid, trisodium salt solution	3	NT	NT	NT
517	Nitrobenzene	2	N	A	A
518	Nitroethane	3	N	A	A
519	Nitroethane (80%)/Nitropropane (20%)	3	N	A	A
520	Nitroethane, 1-Nitropropane (each 15% or more) mixture	3	N	A	A

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521	Nitropropane (60%)/Nitroethane (40%) mixture	2	N	A	A
522	N-methyl-2-pyrrolidone	3	N	N	A
523	N-methylaniline	2	N	A	A
524	N-methylglucamine solution (70% or less)	3	NT	NT	NT
525	N-octyl acetate	3	LA4)	A	LA4)
526	N-octyl mercaptan	1	N	LA1,12)	N
527	Nonane (all isomers)	2	A	A	A
528	Nonanoic acid (all isomers)	2	N	LA1,3,5,12)	N
529	Non-edible industrial grade palm oil	2	LA3)	A	LA3)
530	Nonene (all isomers)	2	A	A	A
531	Non-noxious liquid, (12) n.o.s. (trade name, contains) Cat. OS	0	FS	FS	FS
532	Nonyl alcohol (all isomers)	2	A	A	A
533	Nonyl methacrylate monomer	2	LA4)	A	LA4)
534	Nonylphenol	1	A	A	A
535	Nonylphenol poly (4+) ethoxylate	2	A	A	A
536	Noxious liquid, (11) n.o.s. (trade name, contains) Cat. Z	0	FS	FS	FS
537	Noxious liquid, F, (10) n.o.s. (trade name, contains) ST3, Cat. Z	3	FS	FS	FS
538	Noxious liquid, F, (2) n.o.s. (trade name, contains) ST1, Cat. X	1	FS	FS	FS
539	Noxious liquid, F, (4) n.o.s. (trade name, contains) ST2, Cat. X	2	FS	FS	FS
540	Noxious liquid, F, (6) n.o.s. (trade name, contains) ST2, Cat. Y	2	FS	FS	FS
541	Noxious liquid, F, (8) n.o.s. (trade name, contains) ST3, Cat. Y	3	FS	FS	FS
542	Noxious liquid, NF, (1) n.o.s. (trade name, contains) ST1, Cat. X	1	FS	FS	FS
543	Noxious liquid, NF, (3) n.o.s. (trade name, contains) ST2, Cat. X	2	FS	FS	FS
544	Noxious liquid, NF, (5) n.o.s. (trade name, contains) ST2, Cat. Y	2	FS	FS	FS
545	Noxious liquid, NF, (7) n.o.s. (trade name, contains) ST3, Cat. Y	3	FS	FS	FS
546	Noxious liquid, NF, (9) n.o.s. (trade name, contains) ST3, Cat. Z	3	FS	FS	FS
547	N-pentanoic acid (64%)/2-methyl butyric acid (36%) mixture	2	N	N	N
548	N-pentyl propionate	3	LA4)	A	LA4)
549	N-propanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
550	N-propyl acetate	3	N	LA4)	LA4)
551	N-propyl alcohol	3	LA1,12,15)	LA12,15)	A
552	N-propylamine	2	N	N	N
553	o-Chloronitrobenzene	2	N	N	LA4)
554	o-Chlorotoluene	2	N	LA1,4,12)	LA4)
555	Octamethylcyclotetrasiloxane	2	NT	NT	NT
556	Octane (all isomers)	2	A	A	A
557	Octanoic acid (all isomers)	2	N	LA1,3,5,12)	N
558	Octanol (all isomers)	2	A	A	A
559	Octene (all isomers)	2	A	A	A
560	Octyl aldehydes	2	N	A	N
561	Octyl decyl adipate	2	A	A	A
562	Offshore contaminated bulk liquid P(o)	2	FS	FS	FS
563	Offshore contaminated bulk liquid S(o)	2	FS	FS	FS
564	Offshore contaminated bulk liquid Treated (containing less than 0.8% of an H2S Scavenger) (o)	4	FS	FS	FS
565	Olefin mixture (C7-C9) C8 rich, stabilized	2	A	A	A
566	Olefin mixtures (C5-C15)	2	A	A	A
567	Olefin mixtures (C5-C7)	3	A	A	A
568	Olefin-alkyl ester copolymer (molecular weight 2000+)	2	A	A	A
569	Olefins (C13+, all isomers)	2	A	A	A
570	Oleic acid	2	N	LA1,3,12)	N
571	Oleum	2	N	N	N
572	Oleylamine	2	NT	NT	NT
573	Olive oil	2(k)	LA3)	A	LA3)
574	o-Nitrophenol (molten)	2	N	N	N
575	o- or p-Nitrotoluenes	2	N	A	A
576	Orange juice (concentrated)	0	N	N	N
577	Orange juice (not concentrated)	0	N	N	N
578	o-Toluidine	2	N	N	N
579	Oxygenated aliphatic hydrocarbon mixture	3	A	A	A
580	Palm acid oil	2	N	LA1,3,12)	N
581	Palm fatty acid distillate	2	N	LA1,3,12)	N
582	Palm kernel acid oil	2	N	LA1,3,12)	N
583	Palm kernel fatty acid distillate	2	N	LA1,3,12)	N
584	Palm kernel oil	2(k)	LA3)	A	LA3)
585	Palm kernel olein	2(k)	LA3)	A	LA3)
586	Palm kernel stearin	2(k)	LA3)	A	LA3)
587	Palm mid-fraction	2(k)	LA3)	A	LA3)
588	Palm oil	2(k)	LA3)	A	LA3)
589	Palm oil fatty acid methyl ester	2	LA3)	A	LA3)
590	Palm oil mill effluent (POME) technical oil	5	FS	FS	FS
591	Palm olein	2(k)	LA3)	A	LA3)
592	Palm stearin	2(k)	LA3)	A	LA3)
593	Paraffin wax, highly-refined	2	FS	FS	FS
594	Paraffin wax, semi-refined	2	FS	FS	FS
595	Paraldehyde	3	N	N	N

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
596	Paraldehyde-ammonia reaction product	2	NT	NT	N
597	p-Chlorotoluene	2	N	LA1,4,12)	LA4)
598	p-Cymene	2	A	A	A
599	Pentachloroethane	2	N	LA4)	LA4)
600	Pentaethylenehexamine	2	N	N	LA1,4)
601	Pentane (all isomers)	3	A	A	A
602	Pentanoic acid	2	N	N	N
603	Pentene (all isomers)	2	A	A	A
604	Perchloroethylene	2	N	LA1,4,12)	LA4)
605	Phenol	2	N	N	LA12)
606	Phosphate esters, alkyl (C12-C14) amine	2	NT	NT	NT
607	Phosphoric acid	3	N	N	N
608	Phosphorus, yellow or white (*)	1	NT	NT	NT
609	Phthalic anhydride (molten)	2	N	N	N
610	Pine oil	2	A	A	A
611	Piperazine, 68% solution	2	N	N	N
612	Poly (2+)cyclic aromatics	1	A	A	A
613	Poly (20) oxyethylene sorbitan monooleate	3	NT	NT	NT
614	Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether	3	N	LA1,12)	A
615	Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether acetate	2	N	LA4)	LA4)
616	Poly (4+) isobutylene (MW>224)	2	A	A	A
617	Poly (5+) propylene	3	A	A	A
618	Poly (ethylene glycol) methylbutenyl ether (MW>1000)	3	NT	A	A
619	Poly (iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less)	3	NT	NT	NT
620	Polyacrylic acid solution (40% or less)	3	N	N	N
621	Polyalkene sulphonic acid (C16-C18), sodium salt	4	A	A	N
622	Polyalkene sulphonic acid (C16-C18), sodium salt solution	5	A	A	N
623	Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	2	LA4)	A	LA4)
624	Polyalkyl (C10-C20) methacrylate	2	LA4)	A	LA4)
625	Polyalkyl (C18-C22) acrylate in xylene	2	LA4)	A	LA4)
626	Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	2	NT	NT	NT
627	Polyaluminium chloride solution	3	A	A	N
628	Polybutene	2	A	A	A
629	Polybutenyl succinimide	2	N	N	N
630	Polyether (molecular weight 1350+)	2	FS	A	A
631	Polyethylene glycol	3	A	A	A
632	Polyethylene glycol dimethyl ether	3	N	LA1,12)	A
633	Polyethylene polyamines	2	N	N	LA1,4)
634	Polyethylene polyamines (more than 50% C5-C20 paraffin oil)	2	N	N	N
635	Polyethyleneimine solution (33% or less)	4	N	N	N
636	Polyferric sulphate solution	3	NT	NT	NT
637	Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	2	NT	NT	N
638	Polyisobutenamine in aliphatic (C10-C14) solvent	2	NT	NT	NT
639	Polyisobutenyl anhydride adduct	3	NT	NT	NT
640	Polyisobutylene (MW<=224)	2	A	A	A
641	Polymethylene polyphenyl isocyanate	3	A	A	N
642	Polyolefin (molecular weight 300+)	2	A	A	A
643	Polyolefin amide alkeneamine (C17+)	2	NT	NT	NT
644	Polyolefin amide alkeneamine borate (C28-C250)	2	NT	NT	NT
645	Polyolefin amide alkeneamine polyol	2	NT	NT	NT
646	Polyolefin aminoester salts (molecular weight 2000+)	2	NT	NT	NT
647	Polyolefin anhydride	2	A	A	A
648	Polyolefin ester (C28-C250)	2	A	A	A
649	Polyolefin phenolic amine (C28-C250)	2	NT	NT	NT
650	Polyolefin phosphorusulphide, barium derivative (C28-C250)	2	NT	NT	NT
651	Polyolefinamine (C28-C250)	2	NT	NT	NT
652	Polyolefinamine in alkyl (C2-C4) benzenes	2	NT	NT	NT
653	Polyolefinamine in aromatic solvent	2	NT	NT	NT
654	Polypropylene glycol	3	A	A	A
655	Polysiloxane	2	A	A	A
656	Potassium chloride solution	3	A	A	N
657	Potassium chloride solution (less than 26%)	0	A	A	N
658	Potassium formate solutions(*)	3	N	N	N
659	Potassium hydroxide solution(*)	3	FS	FS	N
660	Potassium oleate	2	NT	A	N
661	Potassium thiosulphate (50% or less)	3	NT	NT	NT
662	Propionaldehyde	3	N	N	N
663	Propionic acid	3	N	N	N
664	Propionic anhydride	2	N	N	N
665	Propionitrile	1	NT	NT	NT
666	Propylbenzene (all isomers)	3	A	A	A
667	Propylene carbonate	3	A	A	NT
668	Propylene glycol	0	A	A	A
669	Propylene glycol methyl ether acetate	3	N	LA4)	LA4)
670	Propylene glycol monoalkyl ether	3	N	LA1,12)	A

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
671	Propylene glycol phenyl ether	3	N	LA1,12)	A
672	Propylene oxide	2	N	N	N
673	Propylene tetramer	2	A	A	A
674	Propylene trimer	2	A	A	A
675	Pyridine	3	N	N	N
676	Pyrolysis gasoline (containing benzene)	2	FS	A	A
677	Rapeseed oil	2(k)	LA3)	A	LA3)
678	Rapeseed oil (low erucic acid containing less than 4% free fatty acids)	2(k)	LA3)	A	LA3)
679	Rapeseed oil fatty acid methyl esters	2	LA3)	A	LA3)
680	RBHC (ExxonMobil) contains: Heptane and benzene	2	FS	A	A
681	Resin oil, distilled	2	A	A	A
682	Rice bran oil	2(k)	LA3)	LA1,3,12)	LA3)
683	Rosin	2	LA3)	A	LA3)
684	Safflower oil	2(k)	LA3)	A	LA3)
685	sec-Amyl alcohol	3	A	A	A
686	sec-Butyl alcohol	0	LA1,12)	A	A
687	s-Ethyl dipropylthiocarbamate	2	NT	LA4)	LA4)
688	Shea butter	2(k)	LA3)	A	LA3)
689	Sodium acetate solutions	0	A	A	N
690	Sodium alkyl (C14-C17) sulphonates (60-65% solution)	2	A	A	NT
691	Sodium aluminosilicate slurry	3	N	N	N
692	Sodium benzoate	3	NT	A	N
693	Sodium bicarbonate solution (less than 10%)	0	NT	A	NT
694	Sodium borohydride (15% or less)/Sodium hydroxide solution(*)	3	FS	FS	N
695	Sodium bromide solution (less than 50%) (*)	3	A	A	N
696	Sodium carbonate solution(*)	3	A	A	N
697	Sodium chlorate solution (50% or less)(*)	3	N	N	N
698	Sodium chlorate solution (50% or less)(amended)(*)	5	N	N	N
699	Sodium chloride solution (less than 30%)	5	A	A	LA9)
700	Sodium dichromate solution (70% or less)	1	N	N	N
701	Sodium dodecylpoly (oxyethylene) sulphate solution	5	NT	NT	NT
702	Sodium hydrogen sulphide (6% or less)/sodium carbonate (3% or less) solution	3	N	N	N
703	Sodium hydrogen sulphite solution (45% or less)	3	N	N	N
704	Sodium hydrosulphide solution (45% or less)(*)	3	A	A	N
705	Sodium hydrosulphide/ammouium sulphide solution(*)	2	N	N	N
706	Sodium hydroxide solution(*)	3	FS	FS	N
707	Sodium hypochlorite solution (15% or less)	2	N	N	N
708	Sodium methylate 21-30% in methanol	2	N	N	LA4)
709	Sodium nitrite solution	3	N	N	N
710	Sodium petroleum sulphonate	2	NT	NT	NT
711	Sodium poly (4+) acrylate solutions	3	NT	A	N
712	Sodium silicate solution	3	A	A	N
713	Sodium sulphate solutions	3	A	A	N
714	Sodium sulphide solution (15% or less)	3	A	A	N
715	Sodium sulphite solution (25% or less)	3	A	A	N
716	Sodium thiocyanate solution (56% or less)	3	N	A	N
717	Sorbitol Propoxylated	4	NT	NT	NT
718	Sorbitol solution	0	A	A	A
719	Soyabean oil	2(k)	LA3)	A	LA3)
720	Soybean oil fatty acid methyl ester	2	LA3)	A	LA3)
721	Styrene monomer	3	LA1,12)	A	A
722	Sulphohydrocarbon (C3-C88)	2	NT	A	NT
723	Sulpholane	3	N	A	A
724	Sulphonated alkylcarboxylic acid polymer salt	4	NT	NT	NT
725	Sulphonated polyacrylate solution	0	NT	NT	NT
726	Sulphur (molten)(*)	3	N	N	N
727	Sulphuric acid	2	N	N	N
728	Sulphuric acid, spent	2	N	N	N
729	Sulphurized fat (C14-C20)	3	NT	A	NT
730	Sulphurized polyolefinamide alkene (C28-C250) amine	3	NT	NT	NT
731	Sunflower seed oil	2(k)	LA3)	A	LA3)
732	Tall oil fatty acid (resin acids less than 20%)	2	N	LA1,3,12)	N
733	Tall oil pitch	2	N	LA1,3,12)	N
734	Tall oil soap, crude	2	N	LA1,3,12)	N
735	Tall oil, crude	2	N	LA1,3,12)	N
736	Tall oil, distilled	2	N	LA1,3,12)	N
737	Tallow	2(k)	LA3)	A	LA3)
738	Tallow fatty acid	2	N	LA1,3,12)	N
739	tert-Amyl alcohol	3	A	A	A
740	tert-Amyl ethyl ether	3	LA1,12)	A	A
741	tert-Amyl methyl ether	2	A	A	A
742	tert-Butyl alcohol	3	LA1,12)	A	A
743	tert-Dodecanethiol	3	N	LA1,12)	N
744	Tetrachloroethane	2	N	LA1,4,12)	LA4)
745	Tetraethyl silicate monomer/oligomer (20% in ethanol)	0	N	LA1,12)	NT

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
746	Tetraethylene glycol	3	A	A	A
747	Tetraethylene pentamine	2	N	N	LA1,4)
748	Tetrahydrofuran	3	N	LA1,4,12)	A
749	Tetrahydronaphthalene	2	A	A	A
750	Tetramethylbenzene (all isomers)	2	A	A	A
751	Titanium dioxide slurry	3	A	A	A
752	Toluene	3	A	A	A
753	Toluene diisocyanate	2	A	A	A
754	Toluenediamine	2	N	LA1,4,12)	LA1)
755	Tributyl phosphate	3	LA4)	A	LA4)
756	Trichloroethylene	2	N	LA4,12)	LA4)
757	Tricresyl phosphate (containing 1% or more ortho-isomer)	2	LA4)	LA4)	LA4)
758	Tricresyl phosphate (containing less than 1% ortho-isomer)	2	LA4)	LA4)	LA4)
759	Tricyanohexane	5	N	N	A
760	Tridecane	2	A	A	A
761	Tridecanoic acid	2	N	LA1,3,12)	N
762	Tridecyl acetate	3	LA4)	LA4)	LA4)
763	Triethanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
764	Triethyl phosphate	3	LA4)	A	LA4)
765	Triethyl phosphite	3	NT	NT	N
766	Triethylamine	3	N	N	LA4)
767	Triethylbenzene	2	A	A	A
768	Triethylene glycol	0	A	A	A
769	Triethylenetetramine	2	N	N	LA1,4)
770	Triisopropanolamine	3	LA1,4,12)	LA1,4,12)	LA4)
771	Triisopropylated phenyl phosphates	2	NT	NT	NT
772	Trimethylacetic acid	2	N	N	N
773	Trimethylamine solution (30% or less)	2	N	N	N
774	Trimethylbenzene (all isomers)	2	A	A	A
775	Trimethylol propane propoxylated	3	NT	NT	NT
776	Tripropylene glycol	3	A	A	A
777	Trixylyl phosphate	1	LA4)	LA4)	LA4)
778	Tung oil	2(k)	LA3)	A	LA3)
779	Turpentine	2	A	A	A
780	Undecanoic acid	2	N	LA1,3,5,12)	N
781	Undecyl alcohol	2	A	A	A
782	Urea solution	3	A	A	N
783	Urea/ammonium nitrate solution	3	A	A	N
784	Urea/ammonium phosphate solution	2	A	A	N
785	Used cooking oil (triglycerides, C16-C18 and C18 unsaturated)* (m)	2	LA3)	A	LA3)
786	Used cooking oil(m)	2	LA3)	FS	LA3)
787	Valeraldehyde (all isomers)	3	N	N	N
788	Vegetable acid oils (m)	2	N	LA1,3,12)	N
789	Vegetable fatty acid distillates (m)	2	N	LA1,3,12)	N
790	Vegetable oil mixtures, containing less than 15% free fatty acid (m)	2	LA3)	A	LA3)
791	Vegetable protein solution (hydrolysed)	0	NT	NT	NT
792	Vinyl acetate	3	N	LA1,4,12)	LA1,4)
793	Vinyl ethyl ether	2	N	LA12)	A
794	Vinyl neodecanoate	2	N	N	A
795	Vinylidene chloride	2	N	N	LA4)
796	Vinyltoluene	2	A	A	A
797	Water	0	A	A	LA9)
798	White spirit, low (15-20%) aromatic	2	A	A	A
799	Wood lignin with sodium acetate/oxalate	3	NT	NT	NT
800	Xylenes	2	A	A	A
801	Xylenes/ethylbenzene (10% or more) mixture	2	A	A	A
802	Xylenol	2	N	N	N
803	Zinc alkaryl dithiophosphate (C7-C16)	2	NT	A	NT
804	Zinc alkenyl carboxamide	2	A	A	N
805	Zinc alkyl dithiophosphate (C3-C14)	2	NT	A	NT
806	(Polyisobutene) amino products in aliphatic hydrocarbons	2	NT	NT	NT
807	[[[(phosphonomethyl) imino] bis [ethylenenitrilobis (methylene)]] tetrakisphosphonic acid, ammonium salt solution (60% or less)	5	NT	NT	NT
808	[[[(phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (34% or less)	6	NT	NT	NT
809	1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one	2	NT	NT	NT
810	1,1,1-Trichloroethane	2	N	LA4,12)	LA4)
811	1,1,2-Trichloro-1,2,2-trifluoroethane	2	NT	NT	LA4)
812	1,1,2-Trichloroethane	3	N	LA4,12)	LA4)
813	1,1-Dichloroethane	3	N	LA1,4,12)	LA4)
814	1,1-Dichloropropane	2	N	LA1,4,12)	LA4)
815	1,2,3-Trichlorobenzene (molten)	2	LA1,4,12)	LA1,4,12)	LA4)
816	1,2,3-Trichloropropane	3	N	LA4,12)	LA4)
817	1,2,4-Trichlorobenzene	1	NT	NT	NT
818	1,2-Butylene oxide	3	N	N	N

	PRODUCT	IBC	T-500	T-800	GALBON S-HB
819	1,2-Dichloropropane	3	N	LA4)	LA4)
820	1,3,5-Hexahydrotriethanol-1,3,5-triazine solution	5	NT	NT	NT
821	1,3,5-Trioxane	3	N	N	N
822	1,3-Cyclopentadiene dimer (molten)	2	A	A	A
823	1,3-Dichloropropene	2	N	N	LA4)
824	1,3-Pentadiene	3	A	A	A
825	1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	2	A	A	A
826	1,4-Dioxane	3	N	N	A
827	1,5,9-Cyclododecatriene	2	NT	NT	NT
828	1,6-Dichlorohexane	2	N	N	LA4)
829	1,6-Hexanediol, distillation overheads	3	NT	NT	NT
830	1-Dodecene	3	A	A	A
831	1-Hexadecylnaphthalene/1,4-bis (hexadecyl) naphthalene mixture	2	N	N	A
832	1-or 2-Nitropropane	3	N	A	A
833	1-Phenyl-1-xytyl ethane	2	A	A	A
834	1-Undecene	2	A	A	A
835	2-(2-Aminoethoxy) ethanol	3	N	N	N
836	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	3	A	A	A
837	2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	2	A	A	A
838	2,2'-Dichloroisopropyl ether	2	N	N	LA4)
839	2,2-Dichloropropionic acid	2	N	N	N
840	2,2-Dimethylpropane-1,3-diol (molten or solution)	3	A	A	A
841	2,4-Dichlorophenol	2	N	NT	N
842	2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	3	NT	NT	NT
843	2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	3	NT	NT	NT
844	2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	3	N	N	N
845	2,6-Diaminohexanoic acid phosphonate mixed salts solution	3	NT	NT	NT
846	2,6-Diethylaniline	2	N	LA1,12)	LA1)
847	2,6-Di-tert-butylphenol	2	N	A	A
848	2-Amino-2-methyl-1-propanol	3	N	N	N
849	2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%)(mixture)	2	NT	NT	NT
850	2-Ethoxyethyl acetate	3	N	LA4,12)	LA4)
851	2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	2	NT	NT	NT
852	2-Ethyl-3-propylacrolein	3	N	N	N
853	2-Ethylhexanoic acid	3	N	LA1,3,5,12)	N
854	2-Ethylhexyl acrylate	3	LA4)	LA4)	LA4)
855	2-Ethylhexylamine	2	N	N	LA4)
856	2-Hydroxy-4-(methylthio) butanoic acid	3	N	N	N
857	2-Hydroxyethyl acrylate	2	NT	NT	LA4)
858	2-Methyl-1,3-propanediol	3	A	A	A
859	2-Methyl-2-hydroxy-3-butyne	3	N	N	A
860	2-Methyl-5-ethyl pyridine	2	N	N	N
861	2-Methyl-6-ethyl aniline	3	N	LA1,12)	LA1)
862	2-Methylglutaronitrile with 2-ethylsuccinonitrile (12% or less)	3	NT	NT	NT
863	2-Methylpyridine	3	N	N	N
864	2-or 3-Chloropropionic acid	2	N	N	N
865	2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution	3	NT	NT	NT
866	3-(Methylthio) propionaldehyde	2	N	N	N
867	3,3'-Methylenebis[5-methyloxazolidine]	4	NT	NT	NT
868	3,4-Dichloro-1-butene	2	N	N	NT
869	3-Methoxy-1-butanol	3	N	LA1,12)	A
870	3-Methoxybutyl acetate	3	LA4)	LA4)	LA4)
871	3-Methyl-3-methoxybutanol	3	A	A	A
872	3-Methylpyridine	3	N	N	N
873	4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	2	NT	NT	NT
874	4-Methylpyridine	3	N	N	N