ADVANCED POLYMER COATINGS | OneGuard™

Chemical Resistance Guide

for IMO Class II, III Product / Chemical Tankers

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

74 Alkylbenzenes mixtures (containing naphthalene)	A		
75 Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	A		
76 Alkylphenol alkoxylate	A	3	
77 Alkylphenols (C10-C18, C12 rich)	A		
78 Alkyl/cyclo (C4-C5) alcohols	A		
79 Allyl alcohol	NT		
80 Allyl chloride	NA		
81 alpha-Methylbenzyl alcohol with acetophenone (15% or less)	NT		
82 alpha-Methylstyrene	A		
83 Alpha-Olefin (C12+) mixtures	NT		
84 alpha-Olefins (C6-C18) mixtures	NT		
85 alpha-Pinene	A		
86 aluminum chloride/hyrdogen chloride solution	NA		
87 aluminum hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	A	3	
88 aluminum sulphate solution	A		
89 Aminoethyl ethanolamine	NT		
90 Aminoethyldiethanolamine/Aminoethylethanolamine solution	NT		
91 Ammonia aqueous (28% or less)	NT		
92 Ammonium bisulphite solution (70% or less)	NT		
93 Ammonium chloride solution (less than 25%)	A		
94 Ammonium fluoride solution (40% or less)	NT		
95 Ammonium hydrogen phosphate solution	A		
96 Ammonium lignosulphonate solutions	A		
97 Ammonium nitrate solution (93% or less)	NT		
98 Ammonium polyphosphate solution	A	3	
99 Ammonium sulphate solution	A		
100 Ammonium sulphide solution (45% or less)	NT		
101 Ammonium thiosulphate solution (60% or less)	NT		
102 Amyl acetate (all isomers)	NA		
103 Amyl alcohol, primary	NA		
104 Aniline	NT		
105 Apple juice	NT		
106 Aryl polyolefins (C11-C50)	A		
107 Aviation jet fuel	A		
108 Barium long chain (C11-C50) alkaryl sulphonate	NT		
109 Benzene and mixtures having 10% benzene or more	NA		
110 Benzene sulphonyl chloride	NT		
111 Benzenetricarboxylic acid, trioctyl ester	NT		
112 Benzyl acetate	NA		
113 Benzyl alcohol	NA		
114 Benzyl chloride	NT		
115 beta-Pinene	A		
116 beta-Propiolactone	NT		
117 Bio-fuel blends of Diesel/gas oil and Alkanes (C9-C24) linear, branched and cyclic with a flashpoint >60 deg C (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	6	
118 Bio-fuel blends of Diesel/gas oil and Alkanes (C9-C24) linear, branched and cyclic with a flashpoint <=60 deg C (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	3,6	
119 Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)	A	3,6	
120 Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	6	
121 Bio-fuel blends of Gasoline and Alkanes (C4-C12) linear, branched and cyclic (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	6	
122 Bio-fuel blends of gasoline and ethyl alcohol (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	3,6	
123 Bio-fuel blends of jet fuels and alkanes (C10-C17) linear, branched (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	6	
124 Bio-fuel blends of Naphtha and Alkanes (C4-C12) linear, branched and cyclic (>25% but <99% by volume) (Up to 10% Free Fatty Acid)	A	6	
125 Bis (2-ethylhexyl) terephthalate	NT		
126 Brake fluid base mix:Poly (2-8) alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	A		
127 Brassica carinata oil	NT		
128 Bromochloromethane	NT		
129 Brown grease	A	3	60
130 Butene oligomer	A		
131 Butyl acetate (all isomers)	NA		
132 Butyl acrylate (all isomers)	NA		
133 Butyl benzyl phthalate	NT		
134 Butyl butyrate (all isomers)	NT		
135 Butyl methacrylate	NT		
136 Butylamine (all isomers)	NT		
137 Butylbenzene (all isomers)	NT		
138 Butylene glycol	NA		
139 Butyl/decyl/cetyl/eicosyl methacrylate mixture	NT		
140 Butyraldehyde (all isomers)	NT		

141 Butyric acid	NT		
142 Calcium alkaryl sulphonate (C11-C50)	NT		
143 Calcium alkyl (C10-C28) salicylate	NT		
144 Calcium carbonate slurry	A		
145 Calcium chloride solution (greater than 35%)	A		
146 Calcium chloride solution(less than 35%)	A		
147 Calcium hydroxide slurry	A		
148 Calcium hypochlorite soln (15% or less)	NA		
149 Calcium hypochlorite solution (more than 15%)	NA		
150 Calcium lignosulphonate solutions	A		
151 Calcium long-chain alkyl phenate sulphide (C8-C40)	NT		
152 Calcium long-chain alkyl salicylate (C13+)	NT		
153 Calcium long-chain alkyl (C11-C40) phenate	NT		
154 Calcium long-chain alkyl (C18-C28) salicylate	NT		
155 Calcium long-chain alkyl (C5-C10) phenate	NT		
156 Calcium nitrate solutions (50% or less)	A		
157 Calcium nitrate/Magnesium nitrate/Potassium chloride solution	A		
158 Camelina oil	A	3	
159 Carbolic oil	NT		
160 Carbon disulphide	NT		
161 Carbon tetrachloride	NT		
162 Cashew nut shell oil (untreated)	A	3	
163 Castor oil	A		
164 Cesium formate solution	NT		
165 Cetyl/eicosyl methacrylate mixture	NT		
166 Chlorinated paraffins (C10-C13)	A		
167 Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	A		
168 Chloroacetic acid (80% or less)	NT		
169 Chlorobenzene	NT		
170 Chloroform	NT		
171 Chlorohydrins (crude)	NT		
172 Chlorosulphonic acid	NT		
173 Chlorotoluenes (mixed isomers)	NT		
174 Choline chloride solutions	NT		
175 Choline hydroxide solution	NT		
176 Citric acid (70% or less)	NA		
177 Clay slurry	A		
178 Coal slurry	A		
179 Coal tar	A	5	65
180 Coal tar naphtha solvent	A		
181 Coal tar pitch (molten)	A	5	65
182 Cocoa butter	A		60
183 Coconut oil (Up to 10% Free Fatty Acid)	A	6	60
184 Coconut oil fatty acid	NA		
185 Coconut oil fatty acid methyl ester	A	3	
186 Concentrated filtrate of the neutralized reaction product of 5-[2- (methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	NT		
187 Concentrated filtrated of the neutralized reaction product of 5- [2-(methylthio) alkyl] imidazolidine-2,4-dione and potassium carbonate (Agrali)	NT		
188 Copper salt of long chain (C17+) alkanoic acid	NT		
189 Corn oil (Up to 10% Free Fatty Acid)	A	6	
190 Cotton seed oil (Up to 10% Free Fatty Acid)	A	6	
191 Cow milk	NT		
192 Creosote (coal tar)	NT		
193 Creosote (coal tar) (amended)	NT		
194 Creosote (coar tar)(C8-C22, MW116-278)	NT		
195 Cresols (all isomers)	NA		
196 Cresol/Phenol/Xylenol mixture	NA		
197 Cresylic acid	NT		
198 Crude oil	A	5	75
199 Crude palm oil (Up to 10% Free Fatty Acid)	A	5, 6	60
200 Cycloheptane	A		
201 Cyclohexane	A		
202 Cyclohexane oxidation products, sodium salts solution	NT		
203 Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	NT		
204 Cyclohexanol	A		
205 Cyclohexanone	A		
206 Cyclohexanone, Cyclohexanol mixture	A		
207 Cyclohexyl acetate	NA		
208 Cyclohexylamine	NT		
209 Cyclopentane	A		
210 Cyclopentene	A		
211 Decahydronaphthalene	A		

212 Decanoic acid	NT		
213 Decene	A		
214 Decyl acrylate	NT		
215 Decyl alcohol (all isomers)	A		
216 Decyloxytetrahydrothiophene dioxide	NT		
217 Decyl/dodecyl/tetradecyl alcohol mixture	A		
218 Diacetone alcohol	NT		
219 Dialkyl thiophosphates sodium salts solution	NT		
220 Dialkyl (C7-C13) phthalates	A		
221 Dialkyl (C8-C9) diphenylamines	NT		
222 Dialkyl (C9-C10) phthalates	A		
223 Dibromomethane	NT		
224 Dibutyl hydrogen phosphonate	NT		
225 Dibutyl phthalate	A		
226 Dibutyl terephthalate	A		
227 Dibutylamine	NT		
228 Dichlorobenzene (all isomers)	NT		
229 Dichloroethyl ether	NT		
230 Dichloromethane	NA		
231 Dicyclopentadiene, resin grade, 81-89%	NT		
232 Diesel	A		
233 Diesel exhaust fluid (DEF)	A		
234 Diethyl ether	NA		
235 Diethyl phthalate	A		
236 Diethyl sulphate	NT		
237 Diethylamine	NT		
238 Diethylaminoethanol	NT		
239 Diethylbenzene	NT		
240 Diethylene glycol	NA		
241 Diethylene glycol dibutyl ether	NA		
242 Diethylene glycol diethyl ether	NA		
243 Diethylene glycol phthalate	NA		
244 Diethylenetriamine	NT		
245 Diethylenetriaminepentaacetic acid, pentasodium salt solution	NT		
246 Diglycidyl ether of bisphenol A	A		
247 Diglycidyl ether of bisphenol F	A		
248 Diheptyl phthalate	A		
249 Dihexyl phthalate	A		
250 Diisobutyl ketone	NA		
251 Diisobutyl phthalate	A		
252 Diisobutylamine	NT		
253 Diisobutylene	A		
254 Diisononyl adipate	A		
255 Diisooctyl phthalate	A		
256 Diisopropanolamine	NT		
257 Diisopropylamine	NT		
258 Diisopropylbenzene (all isomers)	NT		
259 Diisopropylnaphthalene	A		
260 Dimethyl adipate	A		
261 Dimethyl disulphide	NT		
262 Dimethyl glutarate	A		
263 Dimethyl hydrogen phosphite	NT		
264 Dimethyl octanoic acid	NT		
265 Dimethyl phthalate	A		
266 Dimethyl succinate	NT		
267 Dimethylamine solution	NT		
268 Dimethylamine solution (greater than 45% but not greater than 55%)	NT		
269 Dimethylamine solution (greater than 55% but not greater than 65%)	NT		
270 Dimethylethanolamine	NA		
271 Dimethylformamide	NT		
272 Dimethylpolysiloxane	NT		
273 Dinitrotoluene (molten)	NT		
274 Dinonyl phthalate	A		
275 Dioctyl phthalate	A		
276 Dipentene	A		
277 Diphenyl	A		
278 Diphenyl ether	NT		
279 Diphenyl ether/diphenyl phenyl ether mixture	NT		
280 Diphenylamine (molten)	NT		
281 Diphenylamines, alkylated	NT		
282 Diphenylamine, reaction product with 2,2,4-trimethylpentene	NT		
283 Diphenylmethane diisocyanate	NT		
284 Diphenylol propane-epichlorohydrin resins	NT		
285 Diphenyl/diphenyl ether mixtures	NT		
286 Dipropylene glycol	NA		

287 Dithiocarbamate ester (C7-C35)	NT		
288 Ditridecyl adipate	A		
289 Ditridecyl phthalate	A		
290 Diundecyl phthalate	A		
291 Di-n-hexyl adipate	A		
292 Di-n-propylamine	NT		
293 Di-(2-ethylhexyl) adipate	A		
294 Di-(2-ethylhexyl) phosphoric acid	NT		
295 Dodecane (all isomers)	A		
296 Dodecene (all isomers)	A		
297 Dodecyl alcohol	A		
298 Dodecyl diphenyl ether disulphonate solution	NT		
299 Dodecyl hydroxypropyl sulphide	NT		
300 Dodecyl methacrylate	NT		
301 Dodecyl phenol	A		
302 Dodecyl xylene	A		
303 Dodecylamine/tetradecylamine mixture	NT		
304 Dodecylbenzene	A		
305 Dodecyl/octadecyl methacrylate (mixture)	NT		
306 Dodecyl/pentadecyl methacrylate mixture	NT		
307 Drilling brines (containing calcium bromide)	A		
308 Drilling brines (containing zinc chloride)	A		
309 Empty palm fruit bunch oil	NA		
310 Epichlorohydrin	NA		
311 Epoxidized soybean oil (Up to 10% Free Fatty Acid)	A	6	
312 epsilon-Caprolactam (molten or aqueous solutions)	NT		
313 Ethanolamine	NA		
314 Ethoxylated long chain (C16+) alkyloxyalkylamine	NT		
315 Ethoxylated tallow amine (>95%)	NT		
316 Ethyl acetate	NA		
317 Ethyl acetoacetate	NT		
318 Ethyl acrylate	NT		
319 Ethyl alcohol	NA		
320 Ethyl amyl ketone	NA		
321 Ethyl butyrate	NT		
322 Ethyl methacrylate	NT		
323 Ethyl propionate	NT		
324 Ethyl tert-butyl ether	NA		
325 Ethyl tert-pentyl ether	NT		
326 Ethyl toluene	NT		
327 Ethylamine solutions (72% or less)	NT		
328 Ethylamine	NT		
329 Ethylbenzene	NT		
330 Ethylcyclohexane	A		
331 Ethylene carbonate	NT		
332 Ethylene chlorohydrin	NT		
333 Ethylene cyanohydrin	NT		
334 Ethylene dibromide	NT		
335 Ethylene dichloride (EDC)	NA		
336 Ethylene glycol	NA		
337 Ethylene glycol acetate	NT		
338 Ethylene glycol butyl ether acetate	NT		
339 Ethylene glycol diacetate	NT		
340 Ethylene glycol methyl ether acetate	NT		
341 Ethylene glycol monoalkyl ethers	NT		
342 Ethylene glycol phenyl ether	NT		
343 Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	NT		
344 Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture	NA		
345 Ethylene glycol (>85%)/sodium alkyl carboxylates mixture	NA		
346 Ethylene oxide/propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	NT		
347 Ethylenediamine	NT		
348 Ethylenediamine tetraacetic acid, tetrasodium salt solution	NT		
349 Ethylene-vinyl acetate copolymer (emulsion)	NT		
350 Ethylidene norbornene	A		
351 Ethyl-3-ethoxypropionate	NT		
352 Fatty acid methyl esters (FAME)	A	3	
353 Fatty acid ethyl esters (FAEE)	A	3	
354 Fatty acid (saturated C13+)	NT		
355 Fatty acids, (C12+)	NT		
356 Fatty acids, (C16+)	NT		
357 Fatty acids, (C8-C10)	NT		
358 Ferric chloride solutions	NT		
359 Ferric chloride sulphate solution	NT		

360 Ferric nitrate/nitric acid solution	NT		
361 Ferric sulphate solution	NT		
362 Fish by-products (fresh)	NT		
363 Fish oil	A	5	60
364 Fish protein concentrate (containing 4% or less formic acid)	NT		
365 Fish silage protein concentrate (containing 4% or less formic acid)	NT		
366 Fish silage (containing 3% or less formic acid wuth antioxidant)	NT		
367 Fluorosilicic acid solution (20-30%)	NA		
368 Formaldehyde solutions (45% or less)	NA		
369 Formamide	NT		
370 Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	NA		
371 Formic acid (85% or less acid)	NA		
372 Formic acid (over 85%)	NA		
373 Fuel oil	A		60
374 Furfuryl alcohol	NA		
375 Gasoil	A		
376 Gasoline	A		
377 Gas-to-Liquid gasoil (GTL GO)	A		
378 Glucitol/glycerol blend propoxylated	NT		
379 Glucose solution	A		
380 Glutaraldehyde solutions	NT		
381 Glycerine	A		
382 Glycerol ethoxylated	A		
383 Glycerol monooleate	A		
384 Glycerol propoxylated	A		
385 Glycerol, propoxylated and ethoxylated	A		
386 Glycerol/sucrose blend propoxylated and ethoxylated	A		
387 Glyceryl triacetate	NT		
388 Glycidyl ester of C10 trialkylacetic acid	A		
389 Glycine, sodium salt solution	NT		
390 Glycolic acid solution (70% or less)	NT		
391 Glyoxal solution (40% or less)	NT		
392 Glyoxylic acid solution (50% or less)	NT		
393 Glyphosate solution (not containing surfactant)	NT		
394 Grape seed oil (Up to 10% Free Fatty Acid)	A	6	
395 Groundnut oil (Up to 10% Free Fatty Acid)	A	6	
396 Heptane (all isomers)	A		
397 Heptanol (all isomers)(d)	A		
398 Heptene (all isomers)	A		
399 Heptyl acetate	NT		
400 Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	NT		
401 Hexamethylene diisocyanate	NT		
402 Hexamethylene glycol	NA		
403 Hexamethylenediamine adipate (50% in water)	A		
404 Hexamethylenediamine solution	NT		
405 Hexamethylenediamine (molten)	NT		
406 Hexamethyleneimine	NT		
407 Hexamethylenetetramine solutions	NT		
408 Hexane (all isomers)	A		
409 Hexanoic acid	NT		
410 Hexanol	A		
411 Hexene (all isomers)	A		
412 Hexyl acetate	NT		
413 Hexylene glycol	NA		
414 Hydrocarbon wax	A	3	65
415 Hydrochloric acid	NA		
416 Hydrogen gas	NT		
417 Hydrogen peroxide solutions	NA		
418 Hydrogenated starch hydrolysate	NT		
419 Illipe oil	NT		
420 Isoalkanes (C16-C18)	A		
421 Isoamyl alcohol	NA		
422 Isobutyl alcohol	NA		
423 Isobutyl formate	NT		
424 Isobutyl methacrylate	NT		
425 Isophorone	NT		
426 Isophorone diisocyanate	NT		
427 Isophoronediamine	NT		
428 Isoprene	A		
429 Isopropanolamine	NT		
430 Isopropyl acetate	NT		
431 Isopropyl alcohol	A		
432 Isopropyl ether	NT		
433 Isopropylamine	NT		
434 Isopropylcyclohexane	A		

435 Iso- and cyclo-alkanes (C10-C11)	A		
436 Iso- and cyclo-alkanes (C12+)	A		
437 Jatropha oil (Up to 10% Free Fatty Acid)	A	6	
438 Jet A-1 fuel	A		
439 Kaolin slurry	A		
440 Kerosene	A		
441 Lactic acid	NA		
442 Lard (Up to 10% Free Fatty Acid)	A	6	60
443 Latex : Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber	A		
444 Latex, ammonia (1% or less)-inhibited	A		
445 Lecithin	A		
446 Light cycle oil	A		
447 Lignin sulphonic acid, magnesium salt solution	A		
448 Lignin sulphonic acid, sodium salt solution	A		
449 Linseed oil (Up to 10% Free Fatty Acid)	A	6	
450 Liquid chemical wastes	NA		
451 Long chain alkylphenol (C14-C18)	A		
452 Long chain alkylphenol (C18-C30)	A		
453 Long-chain alkaryl polyether (C11-C20)	A		
454 Long-chain alkaryl sulphonic acid (C16-C60)	A		
455 Lubricating oils / base oils	A		
456 L-Lysine solution (60% or less)	NT		
457 Magnesium chloride solution	A		
458 Magnesium hydroxide slurry	A		
459 Magnesium long-chain alkaryl sulphonate (C11-C50)	A		
460 Magnesium long-chain alkyl salicylate (C11+)	NT		
461 Maleic acid/Acrylic acid/Ethenylsulphonic acid/Ethenylphosphonic acid polymer, sodium salt in aqueous/ethylene glycol solution	NT		
462 Maleic anhydride	NT		
463 Maleic anhydride-sodium allylsulphonate copolymer solution	A		
464 Maltitol solution	NT		
465 Mango kernel oil (Up to 10% Free Fatty Acid)	A	3,5,6	60
466 Mercaptobenzothiazol, sodium salt solution	NT		
467 Mesityl oxide	NT		
468 metam Sodium solution	NT		
469 Methacrylic acid	NT		
470 Methacrylic acid - alkoxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	A		
471 Methacrylic resin in ethylene dichloride	NT		
472 Methacrylonitrile	NT		
473 Methyl acetate	NA		
474 Methyl acetoacetate	NT		
475 Methyl acrylate	NT		
476 Methyl alcohol	NA		
477 Methyl amyl ketone	NA		
478 Methyl butyl ketone	NA		
479 Methyl butynol	NT		
480 Methyl butyrate	NT		
481 Methyl diethanolamine	NA		
482 Methyl ethyl ketone	NA		
483 Methyl formate	NT		
484 Methyl isobutyl ketone	NA		
485 Methyl methacrylate	NT		
486 Methyl naphthalene (molten)	NT		
487 Methyl propyl ketone	NA		
488 Methyl salicylate	NT		
489 Methyl tert-butyl ether	NA		
490 Methylamine solutions (42% or less)	NT		
491 Methylamyl acetate	NA		
492 Methylamyl alcohol	NT		
493 Methylbutenol	NT		
494 Methylcyclohexane	A		
495 Methylcyclopentadiene dimer	NT		
496 Methylcyclopentadienyl manganese tricarbonyl	NT		
497 Microsilica slurry	A		
498 Mogas	A		
499 Molasses	A		60
500 Morpholine	NT		
501 Motor fuel anti-knock compounds (containing lead alkyls)	NT		
502 Myrcene	NT		
503 Naphtha (solvent)	A		
504 Naphthalene crude (molten)	NT		
505 Naphthalene (molten)	NT		
506 Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	A		

507 Neodecanoic acid	NT		
508 Nitrating acid (mixture of sulphuric and nitric acids)	NA		
509 Nitric acid (70% and over)	NA		
510 Nitric acid (less than 70%)	NA		
511 Nitrilotriacetic acid, trisodium salt solution	NT		
512 Nitrobenzene	NT		
513 Nitroethane	NT		
514 Nitroethane (80%)/Nitropropane (20%)	NT		
515 Nitroethane, 1-Nitropropane (each 15% or more) mixture	NT		
516 Nitropropane (60%)/Nitroethane (40%) mixture	NT		
517 Nonane (all isomers)	A		
518 Nonanoic acid (all isomers)	NT		
519 Nonene (all isomers)	A		
520 Nonyl alcohol (all isomers)	A		
521 Nonyl methacrylate monomer	NT		
522 Nonylphenol	A		
523 Nonylphenol poly (4+) ethoxylate	A		
524 Non-edible industrial grade palm oil (Up to 10% Free Fatty Acid)	A	6	60
525 Non-noxious liquid, (12) n.o.s. (trade name ...., contains ....) Cat. O	A	3	
526 Noxious liquid, F, (10) n.o.s. (trade name ...., contains ....) ST3, Cat. Z	A	3	
527 Noxious liquid, F, (2) n.o.s. (trade name ...., contains ....) ST1, Cat. X	A	3	
528 Noxious liquid, F, (4) n.o.s. (trade name ...., contains ....) ST2, Cat. X	A	3	
529 Noxious liquid, F, (6) n.o.s. (trade name ...., contains ....) ST2, Cat. Y	A	3	
530 Noxious liquid, F, (8) n.o.s. (trade name ...., contains ....) ST3, Cat. Y	A	3	
531 Noxious liquid, NF, (1) n.o.s. (trade name ...., contains ....) ST1, Cat. X	A	3	
532 Noxious liquid, NF, (3) n.o.s. (trade name ...., contains ....) ST2, Cat. X	A	3	
533 Noxious liquid, NF, (5) n.o.s. (trade name ...., contains ....) ST2, Cat. Y	A	3	
534 Noxious liquid, NF, (7) n.o.s. (trade name ...., contains ....) ST3, Cat. Y	A	3	
535 Noxious liquid, NF, (9) n.o.s. (trade name ...., contains ....) ST3, Cat. Z	A	3	
536 Noxious liquid, (11) n.o.s. (trade name ...., contains ....) Cat. Z	A	3	
537 N-alkanes (C10-C20)	A		
538 N-alkanes (C9-C11)	A		
539 N-aminoethylpiperazine	NT		
540 N-amyl alcohol	NA		
541 N-butyl alcohol	NA		
542 N-butyl ether	NT		
543 N-butyl propionate	NT		
544 N-dodecyl mercaptan	NT		
545 N-ethylcyclohexylamine	NT		
546 N-ethylmethylallylamine	NT		
547 N-heptanoic acid	NT		
548 N-methylaniline	NT		
549 N-methylglucamine solution (70% or less)	NT		
550 N-methyl-2-pyrrolidone	NT		
551 N-octyl acetate	NT		
552 N-octyl mercaptan	NT		
553 N-pentanoic acid (64%)/2-methyl butyric acid (36%) mixture	NT		
554 N-pentyl propionate	NT		
555 N-propanolamine	NT		
556 N-propyl acetate	NA		
557 N-propyl alcohol	NA		
558 N-propylamine	NT		
559 N-(2-methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide	NT		
560 N-(hydroxyethyl) ethylenediaminetriacetic acid, trisodium salt solution	NT		
561 N,N'-Methylene-bis(5-methyloxazolidine)	NT		
562 N,N-dimethylacetamide	NT		
563 N,N-dimethylacetamide solution (40% or less)	NT		
564 N,N-dimethylcyclohexylamine	NT		
565 N,N-dimethyldodecylamine	NT		
566 Octamethylcyclotetrasiloxane	NT		
567 Octane (all isomers)	A		
568 Octanoic acid (all isomers)	NT		
569 Octanol (all isomers)	A		
570 Octene (all isomers)	A		
571 Octyl aldehydes	NT		
572 Octyl decyl adipate	A		
573 Offshore contaminated bulk liquid P	A	3	
574 Offshore contaminated bulk liquid S	A	3	
575 Offshore contaminated bulk liquid Treated (containig less than 0.8% of an H2S Scavenger)	A	3	
576 Olefin mixture (C7-C9) C8 rich, stabilized	A		
577 Olefin mixtures (C5-C15)	A		
578 Olefin mixtures (C5-C7)	A		
579 Olefins (C13+, all isomers)	A		
580 Olefin-alkyl ester copolymer (molecular weight 2000+)	A		
581 Oleic acid	NA		

582 Oleum	NA		
583 Oleylamine	NT		
584 Olive oil (Up to 10% Free Fatty Acid)	A	6	
585 Orange juice (concentrated)	NT		
586 Orange juice (not concentrated)	NT		
587 Oxygenated aliphatic hydrocarbon mixture	A		
588 o-Chloronitrobenzene	NT		
589 o-Chlorotoluene	NT		
590 o-Nitrophenol (molten)	NT		
591 o-or p-Nitrotoluenes	NT		
592 o-Toluidine	NT		
593 Palm acid oil	NA		
594 Palm fatty acid distillate	NA		
595 Palm kernel acid oil	NA		
596 Palm kernel fatty acid distillate	NA		
597 Palm kernel oil (Up to 10% Free Fatty Acid)	A	5,6	60
598 Palm kernel olein (Up to 10% Free Fatty Acid)	A	5,6	60
599 Palm kernel stearin (Up to 10% Free Fatty Acid)	A	5,6	60
600 Palm mid-fraction (Up to 10% Free Fatty Acid)	A	5,6	60
601 Palm oil (Up to 10% Free Fatty Acid)	A	5,6	60
602 Palm oil fatty acid methyl ester	A	3	
603 Palm oil mill effluent (POME) (Up to 10% Free Fatty Acid)	A	3,5,6	60
604 Palm oil mill effluent oil fatty acid distillate	NA		
605 Palm oil mill effluent (POME) technical oil (Up to 10% Free Fatty Acid)	A	3,5,6	60
606 Palm olein (Up to 10% Free Fatty Acid)	A	5,6	60
607 Palm stearin (Up to 10% Free Fatty Acid)	A	5,6	60
608 Paraffin wax, highly-refined	A		65
609 Paraffin wax, semi-refined	A		65
610 Paraldehyde	NT		
611 Paraldehyde-ammonia reaction product	NT		
612 Pentachloroethane	NT		
613 Pentaethylenehexamine	NT		
614 Pentane (all isomers)	A		
615 Pentanoic acid	NT		
616 Pentene (all isomers)	A		
617 Perchloroethylene	NT		
618 Phenol	NA		
619 Phosphate esters, alkyl (C12-C14) amine	NT		
620 Phosphoric acid	NA		
621 Phosphorus, yellow or white	NT		
622 Phthalic anhydride (molten)	NT		
623 Pine oil	A		
624 Piperazine, 68% solution	NT		
625 Poly (20) oxyethylene sorbitan monooleate	NT		
626 Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether	NT		
627 Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether acetate	NT		
628 Poly (2+)cyclic aromatics	NA		
629 Poly (4+) isobutylene (MW>224)	A		
630 Poly (5+) propylene	A		
631 Poly (ethylene glycol) methylbutenyl ether (MW>1000)	A		
632 Poly (iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less)	NT		
633 Polyacrylic acid solution (40% or less)	NT		
634 Polyalkene sulphonic acid (C16-C18), sodium salt	NT		
635 Polyalkene sulphonic acid (C16-C18), sodium salt solution	NT		
636 Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	A		
637 Polyalkyl (C10-C20) methacrylate	NT		
638 Polyalkyl (C18-C22) acrylate in xylene	NT		
639 Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	NT		
640 Polyaluminum chloride solution	A		
641 Polybutene	A		
642 Polybutenyl succinimide	NT		
643 Polyether (molecular weight 1350+)	A		
644 Polyethylene glycol	NA		
645 Polyethylene glycol dimethyl ether	NT		
646 Polyethylene polyamines	NT		
647 Polyethylene polyamines (more than 50% C5-C20 paraffin oil)	NT		
648 Polyetyleneimine solution (33% or less)	NT		
649 Polyferric sulphate solution	NT		
650 Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	A		
651 Polyisobutenamine in aliphatic (C10-C14) solvent	NT		
652 Polyisobutenyl anhydride adduct	NT		
653 Polyisobutylene (MW<=224)	A		
654 Polymethylene polyphenyl isocyanate	NT		
655 Polyolefin amide alkeneamine borate (C28-C250)	NT		
656 Polyolefin amide alkeneamine polyol	NT		

657 Polyolefin amide alkeneamine (C17+)	NT		
658 Polyolefin aminoester salts (molecular weight 2000+)	A		
659 Polyolefin anhydride	NT		
660 Polyolefin ester (C28-C250)	NT		
661 Polyolefin phenolic amine (C28-C250)	NT		
662 Polyolefin phosphorosulphide, barium derivative (C28-C250)	NT		
663 Polyolefin (molecular weight 300+)	A		
664 Polyolefinamine in alkyl (C2-C4) benzenes	NT		
665 Polyolefinamine in aromatic solvent	NT		
666 Polyolefinamine (C28-C250)	NT		
667 Polypropylene glycol	NA		
668 Polysiloxane	A		
669 Potassium chloride solution	A		
670 Potassium chloride solution (less than 26%)	A		
671 Potassium formate solutions	NT		
672 Potassium hydroxide solution	A		
673 Potassium oleate	NT		
674 Potassium thiosulphate (50% or less)	NT		
675 Propionaldehyde	NT		
676 Propionic acid	NT		
677 Propionic anhydride	NT		
678 Propionitrile	NT		
679 Propylbenzene (all isomers)	NT		
680 Propylene carbonate	NT		
681 Propylene glycol	NA		
682 Propylene glycol methyl ether acetate	NT		
683 Propylene glycol monoalkyl ether	NT		
684 Propylene glycol phenyl ether	NT		
685 Propylene oxide	NT		
686 Propylene tetramer	A		
687 Propylene trimer	A		
688 Pyridine	NT		
689 Pyridinium, 1-(phenylmethyl)-, alkyl derivatives, chlorides (30% or less)/Ethoxylated nonylphenols (10% or less) in isopropanol (15% or less)/Methanol (3% or less) solution	NT		
690 Pyrolysis gasoline (containing benzene)	A	3	
691 p-Chlorotoluene	NT		
692 p-Cymene	NT		
693 Rapeseed oil (Up to 10% Free Fatty Acid)	A	6	
694 Rapeseed oil fatty acid methyl esters	A	3	
695 Rapeseed oil (low erucic acid containing less than 10% free fatty acids)	A		
696 Resin oil, distilled	A	3	60
697 Rice bran oil (Up to 10% Free Fatty Acid)	A	3,6	60
698 Rosin	A		75
699 Safflower oil (Up to 10% Free Fatty Acid)	A	6	
700 sec-Amyl alcohol	NA		
701 sec-Butyl alcohol	NA		
702 Shea butter (Up to 10% Free Fatty Acid)	A	6	60
703 Sodium acetate solutions	NT		
704 Sodium alkyl (C14-C17) sulphonates (60-65% solution)	NT		
705 Sodium aluminosilicate slurry	A		
706 Sodium benzoate	NT		
707 Sodium bicarbonate solution (less than 10%)	A		
708 Sodium borohydride (15% or less)/Sodium hydroxide solution	NT		
709 Sodium bromide solution (less than 50%)	A		
710 Sodium carbonate solution	A		
711 Sodium chlorate solution (50% or less)	A		
712 Sodium chlorate solution (50% or more)	A		
713 Sodium chloride solution (less than 30%)	A		
714 Sodium dichromate solution (70% or less)	NT		
715 Sodium dodecylpoly (oxyethylene) sulphate solution	NT		
716 Sodium hydrogen sulphide (6% or less)/sodium carbonate (3% or less)	NT		
717 Sodium hydrogen sulphite solution (45% or less)	NT		
718 Sodium hydrosulphide solution (45% or less)	NT		
719 Sodium hydrosulphide/ammouium sulphide solution	NT		
720 Sodium hydroxide solution (Caustic soda solution)	A		
721 Sodium hypochlorite solution (15% or less)	NA		
722 Sodium methylate 21-30% in methanol	NT		
723 Sodium nitrite solution	NA		
724 Sodium petroleum sulphonate	NT		
725 Sodium poly (4+) acrylate solutions	A		
726 Sodium silicate solution	A		
727 Sodium sulphate solutions	A		
728 Sodium sulphide solution (15% or less)	A		
729 Sodium sulphite solution (25% or less)	A		
730 Sodium thiocyanate solution (56% or less)	NT		

731 Sorbitol Propoxylated	NT		
732 Sorbitol solution	NT		
733 Soyabean oil (Up to 10% Free Fatty Acid)	A	6	
734 Soybean oil fatty acid methyl ester	A	3	
735 Styrene monomer	NA		
736 Sulphohydrocarbon (C3-C88)	NT		
737 Sulpholane	NT		
738 Sulphonated alkylcarboxylic acid polymer salt	NT		
739 Sulphonated polyacrylate solution	NT		
740 Sulphur (molten)	NA		
741 Sulphuric acid	NA		
742 Sulphuric acid, spent	NA		
743 Sulphurized fat (C14-C20)	NT		
744 Sulphurized polyolefinamide alkene (C28-C250) amine	NT		
745 Sunflower seed oil (Up to 10% Free Fatty Acid)	A	6	
746 s-Ethyl dipropylthiocarbamate	NT		
747 Tall oil fatty acid (resin acids less than 20%)	NA		
748 Tall oil pitch	A	3	60
749 Tall oil soap, crude	A	3	60
750 Tall oil, crude	A	3	60
751 Tall oil, distilled	A	3	60
752 Tallow (Up to 10% Free Fatty Acid)	A	6	60
753 Tallow fatty acid	NT		
754 tert-Amyl alcohol	NT		
755 tert-Amyl ethyl ether	NT		
756 tert-Amyl methyl ether	NT		
757 tert-Butyl alcohol	NT		
758 tert-Dodecanethiol	NT		
759 Tetrachloroethane	NT		
760 Tetraethyl silicate monomer/oligomer (20% in ethanol)	NT		
761 Tetraethylene glycol	NA		
762 Tetraethylene pentamine	NT		
763 Tetrahydrofuran	NT		
764 Tetrahydronaphthalene	A		
765 Tetramethylbenzene (all isomers)	NT		
766 Titanium dioxide slurry	A		
767 Toluene	NA		
768 Toluene diisocyanate	NT		
769 Toluenediamine	NT		
770 Tributyl phosphate	NT		
771 Trichloroethylene	NT		
772 Tricresyl phosphate (containing 1% or more ortho-isomer)	NT		
773 Tricresyl phosphate (containing less than 1% ortho-isomer)	NT		
774 Tricyanohexane	NT		
775 Tridecane	A		
776 Tridecanoic acid	NT		
777 Tridecyl acetate	NT		
778 Triethanolamine	NA		
779 Triethyl phosphate	NT		
780 Triethyl phosphite	NT		
781 Triethylamine	NT		
782 Triethylbenzene	NT		
783 Triethylene glycol	NA		
784 Triethylenetetramine	NT		
785 Triisopropanolamine	NT		
786 Triisopropylated phenyl phosphates	NT		
787 Trimethylacetic acid	NA		
788 Trimethylamine solution (30% or less)	NT		
789 Trimethylbenzene (all isomers)	NT		
790 Trimethylol propane propoxylated	NT		
791 Tripropylene glycol	NA		
792 Trixylyl phosphate	NT		
793 Tung oil (Up to 10% Free Fatty Acid)	A	6	60
794 Turpentine	A		
795 Ulta-low-sulfur diesel (ULSD)	A		
796 Undecyl alcohol	A		
797 Unleaded motor spirit (UMS)	A		
798 Urea solution	A		
799 Urea/ammonium nitrate solution (UAN)	A		
800 Urea/ammonium phosphate solution	A		
801 Used cooking oil (UCO)	NA		
802 Valeraldehyde (all isomers)	NT		
803 Vegetable acid oils	NA		
804 Vegetable fatty acid distillates	NA		
805 Vegetable oil mixtures, contaning less than 10% free fatty acid	A	3,5	60

806 Vegetable protein solution (hydrolysed)	NT		
807 Vinyl acetate	NA		
808 Vinyl ethyl ether	NT		
809 Vinyl neodecanoate	NT		
810 Vinylidene chloride	NT		
811 Vinyltoluene	NT		
812 Water	A		
813 White spirit	A	3	
814 Wood lignin with sodium acetate/oxalate	NT		
815 Xylenes	NA		
816 Xylenes/ethylbenzene (10% or more) mixture	A	3	
817 Xylenol	NT		
818 Zinc alkaryl dithiophosphate (C7-C16)	NT		
819 Zinc alkenyl carboxamide	NT		
820 Zinc alkyl dithiophosphate	NT		
821 (Polyisobutene) amino products in aliphatic hydrocarbons	NT		
822 [[(phosphonomethyl) imino] bis [ethylenenitrilobis (methylene)]] tetrakisphosphonic acid, ammonium salt solution (60% or less)	NT		
823 [[(phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (34% or less)	NT		
824 1-Dodecene	A		
825 1-Hexadecylnaphthalene/1,4-bis (hexadecyl) naphthalene mixture	A		
826 1-or 2-Nitropropane	NT		
827 1-Phenyl-1-xylyl ethane	NT		
828 1-Undecene	A		
829 1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one	NT		
830 1,1-Dichloroethane	NA		
831 1,1-Dichloropropane	NT		
832 1,1,1-Trichloroethane	NT		
833 1,1,2-Trichloroethane	NT		
834 1,1,2-Trichloro-1,2,2-trifluoroethane	NT		
835 1,1,3,3-Tetrachloroprop-1-ene	NT		
836 1,2-Butylene oxide	NT		
837 1,2-Dichloropropane	NT		
838 1,2,3-Trichlorobenzene (molten)	NT		
839 1,2,3-Trichloropropane	NT		
840 1,2,4-Trichlorobenzene	NT		
841 1,3-Cyclopentadiene dimer (molten)	NT		
842 1,3-Dichloropropene	NT		
843 1,3-Pentadiene	A		
844 1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	A		
845 1,3,5-Hexahydrotriethanol-1,3,5-triazine solution 5	NT		
846 1,3,5-Trioxane	NT		
847 1,4-Dioxane	NA		
848 1,5,9-Cyclododecatriene	NT		
849 1,6-Dichlorohexane	NT		
850 1,6-Hexanediol, distillation overheads	NT		
851 2-Amino-2-methyl-1-propanol	NT		
852 2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%)(mixture)	NT		
853 2-Ethoxyethyl acetate	NT		
854 2-Ethylhexanoic acid	NT		
855 2-Ethylhexyl acrylate	NT		
856 2-Ethylhexylamine	NT		
857 2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	NT		
858 2-Ethyl-3-propylacrolein	NT		
859 2-Hydroxyethyl acrylate	NT		
860 2-Hydroxy-4-(methylthio) butanoic acid	NT		
861 2-Methylglutaronitrile with 2-ethylsuccinonitrile (12% or less)	NT		
862 2-Methylpyridine	NT		
863 2-Methyl-1,3-propanediol	NT		
864 2-Methyl-2-hydroxy-3-butyne	NT		
865 2-Methyl-5-ethyl pyridine	NT		
866 2-Methyl-6-ethyl aniline	NT		
867 2-or 3-Chloropropionic acid	NT		
868 2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution	NT		
869 2-(2-Aminoethoxy) ethanol	NT		
870 2,2'-Dichloroisopropyl ether	NT		
871 2,2-Dichloropropionic acid	NT		
872 2,2-Dimethylpropane-1,3-diol (molten or solution)	NT		
873 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	NT		
874 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	NT		
875 2,4-Dichlorophenol	NT		
876 2,4-Dichlorophenoxy acetic acid, choline salt solution	NT		
877 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	NT		
878 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	NT		

879 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	NT		
880 2,6-Diaminohexanoic acid phosphonate mixed salts solution	NT		
881 2,6-Diethylaniline	NT		
882 2,6-Di-tert-butylphenol	NT		
883 3-Methoxybutyl acetate	NT		
884 3-Methoxy-1-butanol	NT		
885 3-Methylpyridine	NT		
886 3-Methyl-3-methoxybutanol	NT		
887 3-(Methylthio) propionaldehyde	NT		
888 3,3'-Methylenebis[5-methyloxazolidine]	NT		
889 3,4-Dichloro-1-butene	NT		
890 4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	NT		
891 4-Methylpyridine	NT		

Disclaimer

This is only a reference guide. Mixtures of chemicals not listed in this reference guide require a formal recommendation from Advanced Polymer Coatings (APC). Contact your OneGuard™ Representative or the Customer Service Hotline +1 440-937-6218 for detailed specifications prior to any final coatings recommendation or application. A formal recommendation should be obtained from Advanced Polymer Coatings prior to any purchase or specification of material.
If your chemical(s) or chemical combination is not listed, click here to contact Customer Care for review, and also include a MSDS and Certificate of Quality (COQ) if available.

Key

A: Acceptable
NA: Not Acceptable
NT: Not Tested

General Notes

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

*All the products listed in the resistance list are pure individually and do not represent the allowable range.
Further review is needed 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 ambient (up to 35°C) unless a max temperature has been listed.

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

*The APC Resistance List is provided to indicate the coating's resistance to cargoes, but not to gaurantee the quality of cargoes being loaded.
It shall be the user's responsibility to ensure the quality of cargoes complies with the requirements.

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

*Discoloration is typically a surface phenomenom and does not affect coating performance.
APC does not accept responsibility for lining discoloration and cannot be held liable for any aspect of cargo tank or cargo acceptance.

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

*This list is subject to change without any notice.

Specific Notes

Note-1

These products are aggressive to the coating and should be avoided whenever possible.
Continuous carriage of these cargoes should not exceed 30 days.
Prior to carrying these cargoes, non-aggressive cargoes must be carried for the period of minimum 30 days.
After carrying these cargos, non-aggressive cargoes must be carried for the period of minimum 60 days.

Note-2

Prior to loading these cargoes, tank must be completely dry and moisture-free.
After discharged, tanks must be ventilated until the tank is in a steady state gas-free condition.
A steady gas-free condition is reached when product vapors are NOT detected 8 hours after completion of ventilation.
No water, steam, ballast cargo, or aqueous cargo should be introduced until steady gas-free condition is maintained.

Note-3

Generic cargo name, for specific advice, provide with at least an MSDS and preferably a CoA.

Note-4

Maximum water content of these cargoes must be 0.02% (200 ppm).
Tanks must be completely dry and moisture-free before loading.

Note-5

Lining discoloration may occur.

Note-6

Maximum Free Fatty Acid content must be 10%. Maximum acceptable acid value of 20 (ASTM D-1980 or equivalent).
Maximum water content of 1%. No free mineral acid is permitted.

Cleaning Recommendations

Do not use acid-based or bleach-based cleaning agents.
The temperature of washing water should not normally exceed 66°C and a maximum of 75°C is recommended.
Energy Institute HM 50 or major oil company tank cleaning guidelines are recommended for marine tanks carrying petroleum and refined products.
Energy Institute HM 40 or major oil company tank cleaning guidelines are recommended for marine tanks carrying crude oil.
For specific advise, please reach out to the APC Customer Care Department.