

MarineLine 784

Cargo Resistance Guide -- IBC Listing

Advanced Polymer Coatings, Ltd.

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MarineLine 784 - A Protective Lining for Superior Corrosion Resistance with Exceptional Toughness

Resists:

- * Acids, Alkalies, Solvents, Oxidizing Agents
- * Thermal Shock; -40 deg.F (-40 deg.C) to +400 deg.F (204 deg.C)
- * Flex Stressing
- * Wear and Abrasion
- * Impact
- * Under Creep Corrosion

Data Interpretation:

- A = Good at Ambient Temperature
(Or up to temperature listed {deg.C})
- N = Not Recommended
- = Not Tested

Note: Certain chemicals may cause surface discoloration:

- Sulfuric acid may darken coating
- 10% Nitric may turn coating green

*These are surface effects only, no absorption
Approximate original color may be regained by neutralization*

CONDITIONS OF CARRIAGE

Key to Conditions

MarineLine

Products

UN.No.

Chapter 17 -- Summary of Minimum Requirements

UN.No.	Products	MarineLine	Key to Conditions
	Acetic acid	A	
1648	Acetic anhydride	A	32)
1541	Acetone cyanohydrin	A	1), 2), 9), 12), 14), 15), 32)
1648	Acetonitrile	A	1), 2), 32)
2074	Acrylamide solution (50% or less)	A	1), 2), 3), 7), 12), 13)
2218	Acrylic acid	A	3), 13), 32)
1093	Acrylonitrile	A	1), 2), 3), 12), 32)
2205	Adiponitrile	A	32)
	Alcohol (C12-C15) poly (1-6) ethoxylates	A	
	Alcohol (C12-C15) poly (7-19) ethoxylates	A	
	Alcohol (C6-C17) (secondary) (3-6) ethoxylates	A	12)
	Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates	A	12)
	Alkyl acrylate-vinyl pyridine copolymer in toluene	A	12)
	Alkylbenzene sulphonic acid	A	
	Alkylbenzene sulphonic acid, sodium salt solution	A	
1098	Allyl alcohol	A	1), 2), 12), 32)
3055	2-(2-Aminoethoxy) ethanol	A	12)
	Aminoethyl ethanalamine	A	
2815	N-Aminoethylpiperazine	A	12), 32)
	2-Amino-2-methyl-1-propanol (90% or less)	A	
2672	Ammonia aqueous (28% or less)	A	32)
	Ammonium thiosulphate solution (60% or less)	A	
1104	Amyl acetate (all isomers)	A	
1105	n-Amyl alcohol*	A	
1105	sec-Amyl alcohol*	A	
	Amyl alcohol, primary*	A	
1547	Aniline	A	1), 2), 12), 32)
	Animal and fish oils, n.o.s. including: Cod liver oil, Lanolin, neatsfoot oil, Pilchard oil, Sperm oil*	A	
1114	Benzene and mixtures having 10% benzene or more	A	32), 12)
2225	Benzene sulphonyl chloride	A	12), 32)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

CONDITIONS OF CARRIAGE

Key to Conditions

MarineLine

Products

UN.No.

	Benzyl acetate	A
	Benzyl alcohol	A
	Butene oligomer	A 12)
	Butyl acetate (all isomers)	A
2348	Butyl acrylate (all isomers)	A
1125	Butylamine (all isomers)	A 1), 2), 12), 32)
2709	Butylbenzene (all isomers)	A 12)
	Butyl benzyl phthalate	A 12)
1992	Butyl butyrate (all isomers)	A
	Butyl/Decyl/Cetyl/Bicosyl methacrylate mixture	A 3), 13), 14)
	Butylene glycol*	A
	Butyl methacrylate	A 3), 13), 14), 32), 12)
	Butyraldehyde (all isomers)	A
2820	Butyric acid	A
	gamma-Butyrolactonen	A
1130	Camphor oil	A 12)
	Carbolic oil	A 1), 2), 12), 32)
1846	Carbon tetrachloride	A 1), 2), 12), 32)
	Cashew nut shell oil (untreated)	A 32)
	Cetyl/Eicosyl methacrylate mixture	A 3), 13), 14)
1134	Chlorobenzene	A 12), 32)
1888	Chloroform	A 1), 2), 12), 32)
2023	Chlorohydrins (crude)	A 1), 2), 12), 32)
1578	o-Chloronitrobenzene	A 1), 2), 12), 32)
	2- or 3- Chloropropionic acid	A
2238	m-Chlorotoluene	A 12), 32)
2238	o-Chlorotoluene	A 12), 32)
2238	p-Chlorotoluene	A 12), 32)
2238	Chlorotoluenes (mixed isomers)	A 12), 32)
	Coal tar naphtha solvent	A 12), 32)
	Coconut oil fatty acid methyl ester*	A

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

<u>UN No.</u>	<u>Products</u>	<u>MarineLine</u>	<u>CONDITIONS OF CARRIAGE</u> Key to Conditions
	Coconut oil fatty acid	A	
	Creosote (coal tar)	A	12)
	Creosote (wood)	A	12)
2076	Cresols (all isomers)	A	12)
1143	Crotonaldehyde	A	1), 2), 7), 12), 32)
2241	Cycloheptane (bb)	A	12)
1145	Cyclohexane (bb)	A	12)
	Cyclohexanol*	A	
1915	Cyclohexanone	A	32), 12)
	Cyclohexyl acetate	A	12)
2357	Cyclohexylamine	A	32), 12)
1146	Cyclopentane (bb)	A	12)
2246	Cyclopentene	A	12)
2046	p-Cymene (bb)	A	12)
	Decanoic acid	A	
	Decene	A	12)
	Decyl acrylate	A	3), 12), 13), 14)
	Decyl alcohol (all isomers)	A	12)
	Diacetone alcohol*	A	
	Dialkyl (C7-C13) phthalatos*	A	
	Dibutylamine	A	32)
	Dibutyl phthalate	A	12)
	Dichlorobenzene (all isomers)	A	12)
2362	1, 1-Dichloroethane	A	12), 32)
	Dichloroethyl ether	A	12), 32)
2490	2, 2-Dichloroisopropyl ether	A	1), 2), 12), 32)
1593	Dichloromethane	A	32)
2021	2, 4-Dichlorophenoxyacetic acid, diethanolamine salt	A	12)
	2, 4-Dichlorophenoxyacetic acid, dimethylamine salt	A	12)
	2, 4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	A	12)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

CONDITIONS OF CARRIAGE

Key to Conditions

UN No.	Products	MarineLine
	2, 4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	A
1279	1, 2-Dichloropropane	A 1), 2), 32)
	1, 3-Dichloropropane	A 1), 2), 32)
2047	1, 3-Dichloropropene	A 1), 2), 12), 32)
	Dichloropropene / Dichloropropane mixtures	A 1), 2), 12), 32)
	Diethanolamine	A
1154	Diethylamine	A 1), 2), 32), 12)
2686	Diethylaminoethanol	A 32), 12)
2049	Diethylbenzene	A 12)
	Diethylene glycol*	A
	Diethylene glycol dibutyl ether*	A
2079	Diethylenetriamine	A
1594	Diethyl sulphate	A 12), 32)
	Di-n-hexyl adipate	A 12)
2361	Diisobutylamine	A 1), 2), 12), 32)
2050	Diisobutylene	A 12)
	Diisobutyl ketone*	A
	Diisobutyl phthalate	A
	Diisononyl adipate*	A
	Diisopropanolamine	A
1158	Diisopropylamine	A 1), 2), 12), 32)
	Diisopropylbenzene (all isomers)	A 12)
	Diisopropyl naphthalene (bb)*	A
	Dimethyl adipate	A 12)
1160	Dimethylamine solution (45% or less)	A 1), 2), 32)
1160	Dimethylamine solution (greater than 45% but not greater than 55%)	A 1), 2), 12), 32)
2264	N, N-Dimethylcyclohexylamine	A 1), 2), 12), 32)
2051	Dimethylethanolamine	A 32), 12)
2265	Dimethylformamide	A 32), 12)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

UN No.	Products	Marine Line	Key to Conditions
	Dimethyl glutarate	A	
	Dimethyl hydrogen phosphite	A	32)
	Dimethyl octanoic acid	A	
	Dimethyl phthalate	A	
	Dimethyl succinate	A	
	Dinonyl phthalate*	A	
1165	1, 4-Dioxane	A	1), 2), 12), 32)
2052	Dipentene	A	12)
	Diphenyl ether	A	
	Diphenyl ether/Diphenyl phenyl ether mixture	A	
2383	Di-n-propylamine	A	1), 2), 12), 32)
	Ditridecyl phthalate*	A	
	Diondecyl phthalate*	A	
	Dodecene (all isomers)	A	
	Dodecyl alcohol	A	12)
	Dodecyl diphenyl ether disulphonate solution	A	
	Dodecyl methacrylate	A	3)
	Dodecyl / Pentadecyl methacrylate mixture	A	3), 13), 14)
	2-Ethoxyethanol*	A	
1172	2-Ethoxyethyl acetate	A	12)
1173	Ethyl acetate*	A	
	Ethyl acetoacetate*	A	
1917	Ethyl acrylate	A	3), 13), 14), 32), 12)
2271	Ethyl amyl ketone	A	12)
1175	Ethylbenzene	A	12)
	N-Ethylbutylamine	A	1), 2), 12), 32)
1180	Ethyl butyrate	A	12)
	Ethylcyclohexane (bb)	A	12)
	N-Ethylcyclohexylamine	A	12), 32)
1135	Ethylene chlorohydrin	A	1), 2), 12), 32)
	Ethylene cyanohydrin	A	

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

UN No.	Products	Marine Line	Key to Conditions
1604	Ethylenediamine	A	32), 12)
1184	Ethylene dichloride	A	12), 32)
	Ethylenediamine tetraacetic acid, tetrasodium salt	A	solution
	Ethylene glycol*	A	
	Ethylene glycol butyl ether acetate	A	
	Ethylene glycol diacetate	A	
	Ethylene glycol methyl butyl ether acetate	A	
	Ethylene glycol methyl ether acetate	A	
	Ethylene glycol phenyl ether*	A	
	Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture*	A	
	2-Ethylhexanoic acid*	A	
	2-Ethylhexyl acrylate	A	3), 13), 14), 12)
2276	2-Ethylhexylamine	A	1), 2), 32)
	Ethylene norbornene	A	7), 12), 32)
2277	Ethyl methacrylate	A	3), 13), 14), 32), 12)
	o-Ethylphenol	A	12)
	Ethyl propionate*	A	
	2-Ethyl-3 propylacrolein	A	32)
	Ethyltoluene	A	12)
2582	Ferric Chloride Solutions	A	12)
	Formaldehyde solutions (45% or less)	A	7), 32), 12)
	Formamide*	A	
1779	Formic acid (less than 30%)	A	
	Fumaric adduct of rosin, water dispersion	A	
1199	Furfural	A	7), 32), 12)
2874	Furfuryl alcohol	A	
	Glutaraldehyde solutions (50% or less)	A	7)
1206	Heptane (all isomers) (bb)	A	12)
	Heptanol (all isomers) (q)	A	12)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	Marine Line
	Heptene (all isomers) (bb)	A 12)
	Heptyl acetate	A
	Hexamethylenediamine adipate (50% in water)*	A
1783	Hexamethylenediamine solution	A 12), 32)
2493	Hexamethylenimine	A 32), 12)
1208	Hexane (all isomers) (bb)	A 12)
1233	Hexyl acetate	A
	Hexanoic acid*	A
	Hexanol*	A
	Hexene (all isomers) (bb)	A 12)
	2-Hydroxyethyl acrylate	A 1), 2), 3), 12), 13), 14), 32)
	Isoamyl alcohol*	A
	Isobutyl formate*	A
	Isophorone*	A
2289	Isophoronediamine	A 32)
	Isopropanolamine	A 32)
	Lactic acid*	A
	Lauric acid	A
2215	Maleic anhydride	A
	Mercaptobenzothiazol, sodium salt solution	A
1229	Mesityl oxide	A 12), 32)
2531	Methacrylic acid	A 3), 13), 32)
3079	Methacrylonitrile	A 1), 2), 3), 12), 32)
	3-Methoxybutyl acetate*	A
2053	Methyl alcohol*	A
	Methyl amyl ketone*	A 12)
	Methyl isobutyl ketone*	A
	N-Methyl-2-pyrrolidone*	A
1919	Methyl acrylate	A 3), 13), 14), 32)
1235	Methylamine solution (42% or less)	A 1), 2), 12), 32)
2053	Methylamyl alcohol	A 12)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	MarineLine
	Methyl tart-butyl ether*	A
1237	Methyl butyrate	A 12)
2296	Methylcyclohexane (bb)	A 12)
	Methylcyclopentadiene dimer	A 12)
2300	2-Methyl-6-ethyl aniline	A
	2-Methyl-5-ethyl pyridine	A
	Methyl heptyl ketone	A 12)
	2-Methyl-2-hydroxy-3-butyne	A 12), 32)
1247	Methyl methacrylate	A 3), 13), 14), 32), 12)
2313	2-Methylpyridine	A 1), 2), 12)
2313	4-Methylpyridine	A 1), 2), 12), 32)
	Methyl salicylate	A
2054	Morpholine	A 12)
2304	Naphthalene (molten)	A 12)
	Napthenic acids	A 12)
	Neodecanoic acid	A
2031	Nitric acid (less than 40%)	A 12), 32)
2031	Nitric acid (40% and over)	N 12), 32)
1662	Nitrobenzene	A 1), 2), 12), 32)
1663	o-Nitrophenol (molten)	A 1), 2), 12), 32)
2608	1-or 2 - Nitropropane	A 32), 12)
	Nitropropane (60%) / Nitroethane (40%) mixture	A 32)
1664	o- or p- Nitrotoluenes	A 1), 2), 12), 32)
1920	Nonane (all isomers) (bb)	A 12)
	Nonanoic acid (all isomers)*	A
	Nonene (all isomers)*	A 12)
	Nonyl alcohol (all isomers)	A
	Nonyl methacrylate monomers	A
	Nonyl phenol	A 12)
1262	Octane (all isomers) (bb)	A 12)
	Octanol (all isomers)	A

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

CONDITIONS OF CARRIAGE

UN No.	Products	MarineLine	Key to Conditions
	Octene (all isomers)	A	12)
1191	Octyl aldehydes	A	12)
	Olefin mixtures (C5-C7) (bb)	A	12)
	Olefin mixtures (C5-C15)	A	12)
	alpha-Olefins (C6-C18) mixtures	A	12)
	Oleic acid*	A	
	Palm oil fatty acid methyl ester*	A	
	Palm stearin*	A	
1264	Paraldehyde	A	
1669	Pentachloroethane	A	1), 2), 12)
	1, 3-Pentadiene	A	3), 13), 14), 32)
1897	Perchloroethylene	A	32)
2312	Phenol	A	1), 2), 12), 32)
	1-Phenyl-1 xylol ethane (bb)	A	
1805	Phosphoric acid	A	
2368	alpha-Pinene	A	
	beta-Pinene	A	
	Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether*	A	
	Poly (2-8) alkylene glycol monoalkyl (C1-C6) etheracetate*	A	
	Polyethylene polyamines	A	
	Polyethylene glycol*	A	
1814	Potassium hydroxide solution	A	
	n-Propanolamine	A	
	beta-Propiolactone	A	32)
1275	Propionaldehyde	A	7), 32)
1848	Propionic acid	A	
2496	Propionic anhydride	A	32)
	n-Propyl acetate*	A	
	Propylbenzene (all isomers)	A	12)
	Propylene dimer (bb)	A	12)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

UN No.	Products	MarineLine	Key to Conditions
	Propylene glycol monoalkyl ether*	A	
	Propylene tetramer	A	12)
2057	Propylene trimer	A	12)
1282	Pyridine	A	
	Rosin	A	
	Rosin soap (disproportionated) solution	A	
	Sodium borohydride (15% or less) / sodium hydroxide soln.	A	
	Sodium carbonate solution*	A	
	Sodium dichromate solution (70% or less)	A	1), 2), 12)
1824	Sodium hydroxide solution	A	
	Sodium thiocyanate solution (56% or less)	A	
2055	Styrene monomer	A	3), 13), 14), 12)
	Sulpholane*	A	
1830	Sulphuric acid	A	8), 9), 10), 11)
1832	Sulphuric acid, spent	A	8), 9), 10), 11)
	Tall oil (crude and distilled)	A	12)
	Tall oil fatty acid, (resin acids less than 20%)	A	
	Tall oil soap (disproportionated) solution	A	12)
	Tallow fatty acid*	A	
1702	Tetrachloroethane	A	1), 2), 12), 32)
2320	Tetraethylene pentamine	A	
2056	Tetrahydrofuran	A	32)
	Tetrahydronaphthalene (bb)	A	
	Tetramethylbenzene (all isomers)	A	
1294	Toluene (bb)	A	12)
2078	Toluene diisocyanate	A	1), 2), 8), 9), 10), 11), 12), 32)
1708	o-Toluidine	A	1), 2), 12), 32)
	Tributyl phosphate	A	
2321	1, 2, 4-Trichlorobenzene	A	12), 32)
2831	1, 1, 1-Trichloroethane	A	12)
	1, 1, 2-Trichloroethane	A	12), 32)

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

CONDITIONS OF CARRIAGE

Key to Conditions

Marine Line

Products

UN No.

1710	Trichloroethylene	A	1), 2), 7), 12), 32)
	1, 2, 3-Trichloropropane	A	1), 2), 12), 32)
	1, 1, 2-Trichloro-1, 2, 2-Trifluoroethane	A	
1710	Tricresyl phosphate (containing less than 1% ortho-isomer)	A	12)
	Triethanolamine	A	
1296	Triethylamine	A	1), 2), 32)
	Triethylbenzene	A	12)
2259	Triethylenetetramine	A	
2323	Triethylphosphite	A	32)
	Trimethylacetic acid	A	
	Trimethylbenzene (all isomers)	A	12)
2327	Trimethylhexamethylenediamine (2, 2, 4-and 2, 4, 4-isomers)	A	12)
	2, 2, 4-Trimethyl-1, 3-Pentanediol - 1 - Isobutyrate	A	
2329	Trimethyl phosphite	A	8), 9), 10), 11), 12)
1299	Turpentine	A	12)
	Undecanoic acid	A	12)
	1-Undecene	A	12)
	Undecyl alcohol	A	
	Urea / Ammonium nitrate solution (containing aqua ammonia)	A	32)
	Urea / ammonium nitrate solution*	A	
	Urea / ammonium phosphate solution*	A	
	Vegetable oil, n.o.s. including : Beech nut oil		
	Castor oil, Cocoa butter, Coconut oil, Corn oil,		
	Cotton seed oil, Groundnut oil, Hazelnut oil,		
	Linseed oil, Nutmeg butter, Oiticica oil, Olive		
	oil, Palm nut oil, Palm oil, Peel oil (oranges and		
	lemons), Perilla oil, Poppy oil, Raisin seed oil,		
	Rape seed oil, Rice bran oil, Safflower oil, Salad		
	oil, Sesame oil, Soya Bean oil, Sunflower oil, Tucum		
	oil, Tung oil, Walnut oil, Babbasu oil*	A	

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	MarineLine	Key to Conditions
1301	Vinyl acetate	A	3), 13), 14)
	Vinyl neodecanoate	A	3), 7), 13), 14), 12)
2618	Vinyltoluene	A	3), 12), 13), 14)
1300	White spirit, low (15 - 20%) aromatic	A	12)
1307	Xylenes (bb)	A	12)
2261	Xylenol	A	12)
	Zinc alkaryl dithiophosphate (C7 - C-16)	A	
	Zinc alkyl dithiophosphate (C3 - C14)	A	

(b) Key to Conditions

- 1) Piping systems serving the tanks to be separated from similar equipment serving tanks containing other cargoes.
- 2) Tank vent systems to be separated from tanks containing nontoxic products.
- 3) Manufacturer's certificate of inhibition to be available on board.
- 7) Not to be contaminated with alkaline or acidic materials.
- 8) Not to be contaminated with water.
- 9) Water or steam not to be used as the heat transfer media in cargo temperature control system.
- 10) Not to be carried in cargo tanks adjacent to tanks containing water such as ballast or slop or other cargoes.
- 11) Pumps, pipes or vent lines serving the tanks to be separated from similar equipment serving tanks containing water or cargoes containing water.
- 12) All level alarms to be tested prior to loading.
- 13) Not to be heated and not to be carried in cargo tanks adjacent to tanks in which heated products are loaded.
- 14) Heating coils to be blanked off.
- 15) Manufacturer's certificate of stabilization to be available on board.
- 32) Those cargoes for which suitable toxic vapour detection equipment is not commercially available may be carried provided that low pressure air line system or equivalent quantity of spare air bottles with hose connections suitable for use with the breathing apparatus required by the provisions of 12.2.4 of IBC Code or the provisions of 3.16.6(b) of BCH Code is available on board. The conditions for entry into cargo tanks outlined in the provisions of 16.4.2.2 of IBC Code or the provisions of 5.4.1(b) BCH Code are strictly observed.

Note 1

Detailed conditions of carriage should be based on the approved information booklet for the safe carriage of the cargoes (CHEMICAL OPERATION MANUAL, DAMAGE STABILITY CALCULATION AND LOADING MANUAL (on board).

Note 2

*: This cargo is categorized as "chapter VII/18 Category D"

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

UN No.	Products	MarineLine	Key to Conditions
	Diisopropyl naphthalene (bb)*	A	
	2, 2-Dimethylpropane-1, 3-diol*	A	
	Dimethylpolysiloxane	A	
	Dinonyl phthalate*	A	
	Dioctyl phthalate	A	
	Dipropylene glycol	A	
	Ditridecyl phthalate*	A	
	Diundecyl phthalate*	A	
	Dodecenyyl succinic acid, dipotassium salt solution*	A	
	Dodecylbenzene	A	
1171	2-Ethoxyethanol*	A	
1173	Ethyl acetate*	A	
	Ethyl acetoacetate*	A	
1170	Ethyl alcohol	A	
	Ethylene carbonate	A	
	Ethylenediamine tetraacetic acid, tetrasodium salt solution	A	
	Ethylene glycol*	A	
	Ethylene glycol acetate*	A	
	Ethylene glycol methyl butyl ether*	A	
	Ethylene glycol phenyl ether*	A	
	Ethylene glycol phenyl ether / Diethylene glycol phenyl ether mixture*	A	
	Ethylene-Vinyl acetate copolymer (emulsion)	A	
	2-Ethylhexanoic acid*	A	
1195	Ethyl propionate*	A	
	Ferric hydroxyethylethylene diamine triacetic acid, trisodium salt solution*	A	
	Fish solubles	A	
	Formamide*	A	
	Glucose solution	A	
	Glycerine	A	
	Glycerine (83%), dioxanedimethanol (17%) mixture	A	

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	MarineLine
	Glycerol monooleate	A
	Glycerol polyalkoxylate	A
	Glyceryl triacetate	A
	Glycine, sodium salt solution	A
	Glyoxal solution (40% or less)*	A
	n-Heptanoic acid*	A
	Hexamethylenediamine adipate (50% in water)*	A
	Hexamethylene glycol	A
	Hexamethylenetetramine solutions*	A
	Hexanoic acid*	A
2282	Hexanol*	A
	Hexylene glycol	A
	N-(Hydroxyethyl) ethylenediamine triacetic acid, trisodium salt solution*	A
1105	Isoamyl alcohol*	A
1212	Isobutyl alcohol	A
2393	Isobutyl formate*	A
	Iso- & cyclo-Alkanes (C10-C-11)*	A
	Isophorone*	A
1220	Isopropyl acetate	A
1219	Isopropyl alcohol	A
	Kaolin slurry	A
	Lactic acid*	A
	Lard	A
	Latex : ammonia (1% or less) inhibited*	A
	Ligninsulphonic acid, sodium salt solution	A
	Long-chain alkaryl sulphonic acid (C16-C60)	A
	Magnesium chloride solution	A
	Magnesium hydroxide slurry	A
	Magnesium long chain alkaryl sulphonate (C11-C50)*	A
	3-Methoxy-1-butanol	A
	3-Methoxybutyl acetate*	A
1231	Methyl acetate	A

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	MarineLine
	Methyl acetoacetate*	A
2053	Methyl alcohol*	A
1110	Methyl amyl ketone*	A
1249	Methyl propyl ketone*	A
	N-Methyl-2-pyrrolidone*	A
	Methyl butenol*	A
2398	Methyl tert-butyl ether*	A
	Methyl butyl ketone*	A
	Methyl butynol*	A
1198	Methyl ethyl ketone	A
1245	Methyl isobutyl ketone*	A
	3-Methyl-3-methoxybutanol	A
	3-Methyl-3-methoxybutyl acetate	A
1249	Methyl propyl ketone	A
	Molasses	A
	Myrcene*	A
	Naphthalene sulphonic acid / Formaldehyde copolymer, sodium salt solution*	A
	Nitrotriacetic acid, trisodium salt solution*	A
	Nonanoic acid (all isomers)*	A
	Nonyl methacrylate monomer*	A
	Noxious liquid, n.o.s. (17) (trade name..., contains...)	A
	Cat. D*	A
	Octanoic acid (all isomers)*	A
	Octyl decyl adipate	A
	Olefin / alkyl ester copolymer (molecular weight 2000+)*	A
	Olefins (C13+, all isomers)	A
	Oleic acid*	A
	Palm oil fatty acid methyl ester*	A
	Palm stearin*	A
	Paraffin wax	A
	Pentaethylenhexamine*	A
	Pentanoic acid*	A

**TO THE INTERNATIONAL CERTIFICATE OF FITNESS FOR THE CARRIAGE
DANGEROUS CHEMICALS IN BULK**

**CONDITIONS OF CARRIAGE
Key to Conditions**

UN No.	Products	MarineLine
	Petrolatum	A
	Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether*	A
	Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether acetate*	A
	Polyaluminium chloride solution	A
	Polybutene	A
	Polyether (molecular weight 2000+)*	A
	Polyethylene glycol	A
	Polyethylene glycol dimethyl ether	A
	Polyglycerol	A
	Poly (4+) isobutylene	A
	Polyolefin (molecular weight 300+)	A
	Polyolefin amide alkeneamine (C28+)*	A
	Polyolefin amide alkeneamine borate (C28-C250)*	A
	Polyolefin amide alkeneamine polyol*	A
	Polyolefin anhydride*	A
	Polyolefin ester (C28-C250)*	A
	Polyolefin Phenolic amine (C28-C250)*	A
	Polypropylene glycol*	A
	Polysiloxane	A
1276	n-Propyl acetate*	A
1274	n-Propyl alcohol	A
	Propylene-Butylene copolymer	A
	Propylene glycol	A
	Propylene glycol monoalkyl ether*	A
	Propylene glycol methyl ether acetate*	A
	Sodium acetate solutions*	A
	Sodium aluminosilicate slurry	A
	Sodium benzoate*	A
	Sodium carbonate solution*	A
	Sodium sulphate solutions	A
	Sulphohydrocarbon (C3-C88)	A
	Sulpholane*	A

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CONDITIONS OF CARRIAGE

Key to Conditions

Marine Line

Products

UN No.

Tallow*	A
Tallow fatty acid*	A
Tetraethylene glycol	A
Tridecane	A
Triethyl phosphate*	A
Triethylene glycol	A
Triisopropanolamine	A
Trimethylol propane polyethoxylate*	A
Tripropylene glycol	A
Urea / Ammonium mono-and di-hydrogen phosphate/	A
Potassium chloride solution*	A
Urea / Ammonium nitrate solution*	A
Urea / Ammonium phosphate solution*	A
Urea solution	A
Vegetable protein solution (hydrolysed)	A
WATER	A
Waxes*	A