

CERTIFIED COPY

Certificate no: **IDSS 0601546**
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International Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk The Kingdom of Denmark

Issued under the provisions of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (MSC176(79) and MEPC.119(52))

under the authority of the Government of the Kingdom of Denmark by Lloyd's Register EMEA

Particulars of ship	
Name of ship	MARIANNE THERESA
Distinctive number or letters	OVIV2
Port of registry	STRUER
Gross tonnage	1,599
Ship type* (Code paragraph 2.1.2)	2
IMO number	8820286
Date on which keel was laid or on which the ship was at a similar stage of construction or (in the case of a converted ship) date on which conversion to chemical tanker was commenced.	06 August 1990

The ship also complies fully with the following amendments to the Code:

Resolutions MSC 176 (79) and MEPC 119 (52).

The ship is exempted from compliance with the following provisions of the Code:

Chapter 3, Paragraph 3.4.2 and 3.4.3.

This is to certify:

1. that the ship has been surveyed in accordance with the provisions of section 1.5 of the Code;
2. that the survey showed that the construction and equipment of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the relevant provisions of the Code;
3. that the ship has been provided with a Manual, in accordance with Appendix 74 of Annex II and Marpol 73/78 as called for by regulation 14 of Annex II, and that the arrangements and equipment of the ship prescribed in the manual are in all respects satisfactory;
4. that the ship meets the requirements for the carriage in bulk of the products listed on page(s) **6-21** provided that all the relevant operational provisions of the Code and Annex II of Marpol 73/78 are observed;

* Delete as appropriate

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**Lloyd's
Register**

List of Products

Ship Name : **MARIANNE THERESA**

Certificate No : **1546**

IMO no : **8820286**

Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
ACETIC ACID	6, 14, 23, 26, 27, 28, 55	1, 2	Z
ACETIC ANHYDRIDE	6, 14, 26, 27, 28, 30	1	Z
ACETOCHLOR	10, 11, 28, 30, 47, 55, 56	1	X
ACETONE	57	1, 2	Z
ACETONE CYANOHYDRIN	1, 2, 3, 5, 14, 29, 30, 33, 42	1	Y
ACETONITRILE	5, 28, 30	1	Z
ACID OIL MIXTURE FROM SOYABEAN, CORN (MAIZE) AND SUNFLOWER OIL REFINING	10, 11, 28, 30, 47, 55, 56	1	Y
ACRYLAMIDE SOLUTION (50% or less)	1, 2, 13, 23, 28, 30, 42, 47, 55	1	Y
ACRYLIC ACID	1, 2, 6, 13, 14, 23, 26, 27, 29, 30, 42, 46, 54, 55	1	Y
ACRYLONITRILE	1, 5, 14, 29, 30	1	Y
ACRYLONITRILE-STYRENE COPOLYMER DISPERSION IN POLYETHER POLYOL	10, 11, 28, 56	1, 2	Y
ADIPONITRILE	11, 23, 55	1, 2	Z
ALACHLOR TECHNICAL (90% or more)	10, 11, 23, 28, 30, 55	1	X
ALCOHOL (C9-C11) POLY (2.5-9) ETHOXYLATE	10, 11, 23, 28, 55	1, 2	Y
ALCOHOL (C6-C17) (secondary) POLY(3-6)ETHOXYLATES	10, 11, 28, 30, 55	1	Y
ALCOHOL (C6-C17) (secondary) POLY(7-12)ETHOXYLATES	10, 11, 23, 28, 30, 55, 56	1	Y
ALCOHOL (C12-C16) POLY(1-6)ETHOXYLATES	10, 11, 23, 28, 30, 55	1	Y
ALCOHOL (C12-C16) POLY(20+)ETHOXYLATES	10, 11, 55	1, 2	Y
ALCOHOL (C12-C16) POLY(7-19)ETHOXYLATES	10, 11, 23, 28, 30, 55	1	Y
ALCOHOLIC BEVERAGES, n.o.s.	10, 11, 57	1, 2	Z
ALCOHOLS (C13+)	10, 11, 28, 30, 55	1	Y
ALKANES (C6-C9)	10, 11, 28, 30	1	X
ISO- AND CYCLO-ALKANES (C10-C11)	10, 11	1, 2	Z
ISO- AND CYCLO-ALKANES (C12+)	10, 11	1, 2	Z
n-ALKANES (C10+)	10, 11	1, 2	Z
ALKARYL POLYETHERS (C9-C20)	10, 11, 28, 30, 47, 56	1	Y
ALKENYL (C16-C20) SUCCINIC ANHYDRIDE	5, 10, 11, 14, 29	1, 2	Z
ALKYL ACRYLATE- VINYLPIRIDINE COPOLYMER IN TOLUENE	10, 28, 30, 47, 55	1	Y
ALKYLATED (C4-C9) HINDERED PHENOLS	10, 11, 28, 30, 55, 56	1	Y
ALKYLBENZENE MIXTURES (containing at least 50% of toluene)	5, 28, 47	1, 2	Y
ALKYLBENZENE, ALKYLINDANE, ALKYLINDENE MIXTURE (each C12-C17)	10, 11, 28	1, 2	Z
ALKYL (C3-C4) BENZENES	10, 11, 28, 30, 47	1	Y
ALKYL (C5-C8) BENZENES	10, 11, 28, 30	1	X
ALKYL(C9+)BENZENES	10, 11	1, 2	Z
ALKYL (C11-C17) BENZENE SULPHONIC ACID	10, 11, 28, 30, 47, 56	1	Y
ALKYLBENZENE SULPHONIC ACID, SODIUM SALT SOLUTION	23, 28, 30, 47, 55, 56	1	Y
ALKYL DITHIOCARBAMATE (C19-C35)	10, 11, 28, 55, 56	1, 2	Y
ALKYLDITHIOTHIAZOLE (C6-C24)	10, 11	1, 2	Z
ALKYL ESTER COPOLYMER (C4-C20)	10, 11, 28, 30, 55, 56	1	Y
ALKYL (C8-C10)/(C12-C14) : (40% or less/60% or more) POLYGLUCOSIDE SOLUTION (55% or less)	10, 11, 28, 55, 56	1, 2	Y

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Tank groups referred to in this list are identified on the tank group key on Page 22.

List of Products

Ship Name : **MARIANNE THERESA**

Certificate No : **1546**

IMO no : **8820286**

Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
ALKYL (C8-C10)/(C12-C14) : (60% or more/40% or less) POLYGLUCOSIDE SOLUTION (55% or less)	10, 11, 55, 56	1, 2	Y
ALKYL (C7-C9) NITRATES	2, 3, 10, 11, 15, 28, 30, 33, 42, 47	1	Y
ALKYL (C7 - C11) PHENOL POLY (4 - 12) ETHOXYLATE	10, 11, 23, 28, 30, 47	1	Y
ALKYL (C8-C40) PHENOL SULPHIDE	10, 11	1, 2	Z
ALKYL (C8-C9) PHENYLAMINE IN AROMATIC SOLVENTS	10, 11, 28, 30	1	Y
ALKYL (C9-C15) PHENYL PROPOXYLATE	10, 11	1, 2	Z
ALKYL (C8-C10)/(C12-C14) : (50%/50%) POLYGLUCOSIDE SOLUTION (55% or less)	10, 11, 55, 56	1, 2	Y
ALKYL (C12-C14) POLYGLUCOSIDE SOLUTION (55% or less)	10, 11, 28, 55	1, 2	Y
ALKYL (C8-C10) POLYGLUCOSIDE SOLUTION (65% or less)	10, 11, 56	1, 2	Y
ALKYL(C10-C20, SATURATED AND UNSATURATED) PHOSPHITE	10, 11, 30, 55	1	Y
ALKYL SULPHONIC ACID ESTER OF PHENOL	10, 11, 28, 56	1, 2	Y
ALLYL ALCOHOL	5, 14, 29, 30	1	Y
ALUMINIUM SULPHATE SOLUTION	10, 11, 28, 30	1	Y
2-(2-AMINOETHOXY) ETHANOL	10, 11, 23, 28, 47	1, 2	Z
AMINOETHYLDIETHANOLAMINE / AMINOETHYLETHANOLAMINE SOLUTION	10, 11, 47, 55	1, 2	Z
AMINOETHYL ETHANOLAMINE		1, 2	Z
N-AMINOETHYLPIPERAZINE	10, 28, 47, 55	1, 2	Z
2-AMINO-2-METHYL-1-PROPANOL	10, 11	1, 2	Z
AMMONIA AQUEOUS (28% or less)	10, 11, 14, 30	1	Y
AMMONIUM HYDROGEN PHOSPHATE SOLUTION	10, 11	1, 2	Z
AMMONIUM LIGNOSULPHONATE SOLUTIONS	10, 11, 47, 55	1, 2	Z
AMMONIUM POLYPHOSPHATE SOLUTION	10, 11	1, 2	Z
AMMONIUM SULPHATE SOLUTION	10, 11	1, 2	Z
AMMONIUM SULPHIDE SOLUTION (45% or less)	2, 3, 5, 10, 11, 14, 22, 29, 30, 33, 42	1	Y
AMMONIUM THIOSULPHATE SOLUTION (60% or less)	47, 55	1, 2	Z
AMYL ACETATE (all isomers)	28	1, 2	Y
n-AMYL ALCOHOL		1, 2	Z
AMYL ALCOHOL, primary		1, 2	Z
sec-AMYL ALCOHOL		1, 2	Z
tert-AMYL ALCOHOL		1, 2	Z
tert-AMYL METHYL ETHER	10, 28, 30	1	X
ANILINE	5, 29, 30	1	Y
APPLE JUICE	58	1, 2	OS
ARYL POLYOLEFINS (C11-C50)	10, 11, 28, 30, 55, 56	1	Y
AVIATION ALKYLATES (C8 paraffins & iso-paraffins BPT 95 - 120 degrees C)	10, 11, 28, 30	1	X
BARIUM LONG CHAIN (C11-C50) ALKARYL SULPHONATE	10, 11, 13, 23, 29, 30, 55, 56	1	Y
BENZENE AND MIXTURES HAVING 10% BENZENE or more	23, 28, 38, 44, 55	1, 2	Y
BENZENE SULFONYL CHLORIDE	10, 11, 23, 28, 47, 55	1, 2	Z
BENZENETRICARBOXYLIC ACID, TRIOCTYL ESTER	10, 28, 30, 56	1	Y
BENZYL ACETATE	10, 30	1	Y

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
BENZYL ALCOHOL	10	1, 2	Y
BRAKE FLUID BASE MIX: POLY(2-8)ALKYLENE (C2-C3)	10, 11, 47, 48	1, 2	Z
GLYCOLS/POLYALKYLENE (C2-C10) GLYCOLS MONOALKYL ...			
BROMOCHLOROMETHANE	10, 11	1, 2	Z
BUTENE OLIGOMER	10, 11, 28, 30, 47	1	X
BUTYL ACETATE (all isomers)	10, 11, 28	1, 2	Y
BUTYL ACRYLATE (all isomers)	1, 2, 3, 28, 30, 42	1	Y
n-BUTYL ALCOHOL	57	1, 2	Z
sec-BUTYL ALCOHOL	57	1, 2	Z
tert-BUTYL ALCOHOL	23	1, 2	Z
BUTYLAMINE (all isomers)	5, 10, 11, 14, 22, 28, 30	1	Y
BUTYLBENZENE (all isomers)	10, 11, 28, 30	1	X
BUTYL BENZYL PHTHALATE	10, 11, 28, 30	1	X
BUTYL BUTYRATE (all isomers)	10, 11, 28	1, 2	Y
BUTYL/DECYL/CETYL/EICOSYL METHACRYLATE MIXTURE	1, 2, 3, 10, 11, 23, 28, 30, 42	1	Y
BUTYLENE GLYCOL	10, 11, 23	1, 2	Z
BUTYL METHACRYLATE	1, 2, 3, 11, 28, 42	1, 2	Z
n-BUTYL PROPIONATE	10, 11, 28	1, 2	Y
BUTYRALDEHYDE (all isomers)	28	1, 2	Y
BUTYRIC ACID	6, 26, 27, 28	1, 2	Y
gamma-BUTYROLACTONE	10, 28	1, 2	Y
CALCIUM HYPOCHLORITE SOLUTION (15% or less)	28, 30	1	Y
CALCIUM LIGNOSULPHONATE SOLUTIONS	10, 11, 47, 55	1, 2	Z
CALCIUM LONG-CHAIN ALKARYL SULPHONATE (C11-C50)	10, 11, 47, 55	1, 2	Z
CALCIUM LONG-CHAIN ALKYL(C5-C10) PHENATE	10, 11	1, 2	Y
CALCIUM LONG-CHAIN ALKYL(C11-C40) PHENATE	10, 11	1, 2	Z
CALCIUM LONG-CHAIN ALKYL PHENATE SULPHIDE (C8-C40)	10, 11, 28, 30, 55, 56	1	Y
CALCIUM LONG-CHAIN ALKYL SALICYLATE (C13+)	10, 11, 28, 30, 47, 56	1	Y
CALCIUM NITRATE/MAGNESIUM NITRATE/POTASSIUM CHLORIDE SOLUTION	10, 11, 47, 55	1, 2	Z
CALCIUM NITRATE SOLUTIONS (50% OR LESS)	10, 11, 47, 57	1, 2	Z
epsilon-CAPROLACTAM (molten or aqueous solutions)	10, 11, 23	1, 2	Z
CARBOLIC OIL	5, 10, 23, 28, 30, 47, 55	1	Y
CARBON TETRACHLORIDE	5, 10, 11, 14, 28, 30	1	Y
CASHEW NUT SHELL OIL (untreated)	10, 11, 23, 28, 30, 47, 55, 56	1	Y
CASTOR OIL	10, 28, 39, 46, 50, 55, 56	1	Y
CETYL/EICOSYL METHACRYLATE MIXTURE	1, 2, 3, 10, 11, 23, 28, 30, 42, 55	1	Y
CHLOROACETIC ACID (80% or less)	6, 13, 23, 26, 27, 29, 30, 55	1	Y
CHLOROBENZENE	28, 30	1	Y
CHLOROFORM	5, 14, 22, 28	1, 2	Y
CHLOROHYDRINS (crude)	5, 29, 30	1	Y

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
4-CHLORO-2-METHYLPHENOXYACETIC ACID, DIMETHYLAMINE SALT SOLUTION	30, 55	1	Y
o-CHLORONITROBENZENE	5, 10, 11, 23, 29, 30, 47, 55, 56	1	Y
1-(4-CHLOROPHENYL)-4,4- DIMETHYL-PENTAN-3-ONE	10, 11, 28, 30, 55, 56	1	Y
2- or 3-CHLOROPROPIONIC ACID	6, 10, 11, 23, 26, 27, 55	1, 2	Z
m-CHLOROTOLUENE	10, 11, 28, 30	1	Y
o-CHLOROTOLUENE	10, 11, 28, 30	1	Y
p-CHLOROTOLUENE	10, 11, 23, 28, 30, 55	1	Y
CHLOROTOLUENES (mixed isomers)	10, 11, 23, 28, 30	1	Y
CHOLINE CHLORIDE SOLUTIONS	10, 11	1, 2	Z
CITRIC ACID (70% or less)	10, 11	1, 2	Z
COAL TAR	23, 28, 30, 47, 55, 56	1	X
COAL TAR NAPHTHA SOLVENT	28, 30, 47, 55	1	Y
COCONUT OIL	10, 11, 23, 28, 39, 46, 50, 55, 56	1	Y
COCONUT OIL FATTY ACID	10, 11, 23, 28, 30, 47, 55, 56	1	Y
COCONUT OIL FATTY ACID METHYL ESTER	10, 11, 28, 30, 47	1	Y
COPPER SALT OF LONG CHAIN (C17+) ALKANOIC ACID	10, 11, 28, 30, 47, 55, 56	1	Y
CORN OIL	10, 11, 28, 39, 46, 50, 55, 56	1	Y
COTTON SEED OIL	10, 11, 23, 28, 39, 46, 50, 55, 56	1	Y
CRESOLS (all isomers)	23, 28, 30, 55	1	Y
CRESYLIC ACID, DEPHENOLIZED	10, 11, 28, 30	1	Y
CRESYLIC ACID, SODIUM SALT SOLUTION	10, 11, 28, 30, 47, 55	1	Y
CROTONALDEHYDE	5, 14, 28, 30	1	Y
CYCLOHEPTANE	10, 11, 28, 30	1	X
CYCLOHEXANE	11, 23, 28, 30, 55	1	Y
CYCLOHEXANOL	23, 28, 30, 55	1	Y
CYCLOHEXANONE	28	1, 2	Z
CYCLOHEXANONE, CYCLOHEXANOL MIXTURE	10, 11	1, 2	Y
CYCLOHEXYL ACETATE	10, 11, 28	1, 2	Y
CYCLOHEXYLAMINE	28	1, 2	Y
1,3-CYCLOPENTADIENE DIMER (molten)	10, 11, 23, 28, 30, 55, 56	1	Y
CYCLOPENTANE	10, 28, 30	1	Y
CYCLOPENTENE	10, 11, 22, 28, 30	1	Y
p-CYMENE	10, 28, 30	1	Y
DECAHYDRONAPHTHALENE	28, 30	1	Y
DECANOIC ACID	10, 11, 23, 30, 55	1	X
DECENE	10, 11, 28, 30, 47	1	X
DECYL ALCOHOL (all isomers)	11, 23, 28, 30, 40, 55	1	Y
DECYLOXYTETRAHYDROTHIOPHENE DIOXIDE	10, 11, 28, 30, 47, 55	1	X
DIACETONE ALCOHOL		1, 2	Z
DIALKYL (C8-C9) DIPHENYLAMINES	10, 11	1, 2	Z

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Tank groups referred to in this list are identified on the tank group key on Page 22.

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
DIALKYL (C7-C13) PHTHALATES	10, 11, 23, 28, 30, 56	1	X
DIBROMOMETHANE	13, 29, 30	1	Y
DIBUTYLAMINE	28	1, 2	Y
DIBUTYL HYDROGEN PHOSPHONATE	10, 11, 28, 55	1, 2	Y
DIBUTYL PHTHALATE	10, 28, 30	1	X
DICHLOROBENZENE (all isomers)	23, 28, 30	1	X
3,4-DICHLORO-1-BUTENE	10, 11, 13, 14, 28, 30	1	Y
1,1-DICHLOROETHANE	14, 22, 28, 47	1, 2	Z
DICHLOROETHYL ETHER	28, 30	1	Y
1,6-DICHLOROHEXANE	10, 11, 28, 30, 47	1	Y
2,2'-DICHLOROISOPROPYL ETHER	5, 10, 11, 29, 30	1	Y
DICHLOROMETHANE	22, 28, 47	1, 2	Y
2,4-DICHLOROPHENOL	9, 10, 11, 23, 28, 30, 55, 56	1	Y
2,4-DICHLOROPHENOXYACETIC ACID, DIETHANOLAMINE SALT SOLUTION	28, 47, 55	1, 2	Y
2,4-DICHLOROPHENOXYACETIC ACID, DIMETHYLAMINE SALT SOLUTION (70% or less)	23, 28, 47, 55	1, 2	Y
2,4-DICHLOROPHENOXYACETIC ACID, TRIISOPROPANOLAMINE SALT SOLUTION	28, 47, 55, 56	1, 2	Y
1,1-DICHLOROPROPANE	5, 10, 11, 28, 30	1	Y
1,2-DICHLOROPROPANE	5, 28, 30	1	Y
1,3-DICHLOROPROPENE	5, 14, 29, 30	1	X
DICHLOROPROPENE/DICHLOROPROPANE MIXTURES	5, 10, 11, 14, 29, 30	1	X
2,2-DICHLOROPROPIONIC ACID	6, 9, 10, 11, 23, 26, 27, 28, 47, 55	1, 2	Y
DIETHANOLAMINE	23, 55, 56	1, 2	Y
DIETHYLAMINE	5, 14, 22, 28	1, 2	Y
DIETHYLAMINOETHANOL	28, 30	1	Y
2,6-DIETHYLANILINE	10, 11, 23, 28, 47, 55	1, 2	Y
DIETHYLBENZENE	10, 11, 28, 30	1	Y
DIETHYLENE GLYCOL	57	1, 2	Z
DIETHYLENE GLYCOL DIETHYL ETHER	10, 11, 47	1, 2	Z
DIETHYLENE GLYCOL PHTHALATE	10, 11, 28, 47, 56	1, 2	Y
DIETHYLENETRIAMINE		1, 2	Y
DIETHYLENETRIAMINEPENTAACETIC ACID, PENTASODIUM SALT SOLUTION	10, 11, 47	1, 2	Z
DI-(2-ETHYLHEXYL) ADIPATE	10, 11, 28, 30	1	Y
DI-(2-ETHYLHEXYL) PHOSPHORIC ACID	10, 11, 28, 30, 47	1	Y
DIETHYL PHTHALATE	10, 11, 30	1	Y
DIETHYL SULPHATE	28, 30	1	Y
DIGLYCIDYL ETHER OF BISPHENOL A	10, 11, 28, 30, 47, 55, 56	1	X
DIGLYCIDYL ETHER OF BISPHENOL F	10, 11, 28, 30, 47, 56	1	Y
DIHEPTYL PHTHALATE	10, 11, 28, 30	1	Y
DIHEXYL PHTHALATE	10, 11, 28, 30	1	Y
DIISOBUTYLAMINE	10, 11, 13, 28, 30	1	Y

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	Notes	Tank Groups	
DIISOBUTYLENE	28, 30	1	Y
DIISOBUTYL KETONE	28	1, 2	Y
DIISOBUTYL PHTHALATE	10, 11, 28, 30	1	X
DIISONONYL ADIPATE	10, 11, 28, 30, 47	1	Y
DIISOCTYL PHTHALATE	10, 11, 28, 30, 56	1	Y
DIISOPROPANOLAMINE	23, 55	1, 2	Z
DIISOPROPYLAMINE	5, 14, 29, 30	1	Y
DIISOPROPYLBENZENE (all isomers)	10, 24, 28, 30	1	X
DIISOPROPYLNAPHTHALENE	10, 11, 28, 30, 47	1	Y
N,N-DIMETHYLACETAMIDE	5, 10, 11	1, 2	Z
N,N-DIMETHYLACETAMIDE SOLUTION (40% or less)	10, 44	1, 2	Z
DIMETHYL ADIPATE	10, 11, 23, 28, 30, 55	1	X
DIMETHYLAMINE SOLUTION (45% or less)	5, 22, 28	1, 2	Y
DIMETHYLAMINE SOLUTION (greater than 45% but not greater than 55%)	5, 11, 14, 22, 29, 30	1	Y
N,N-DIMETHYLCYCLOHEXYLAMINE	5, 10, 28, 30	1	Y
DIMETHYL DISULPHIDE	13, 28, 30, 54	1	Y
DIMETHYLETHANOLAMINE	28	1, 2	Y
DIMETHYLFORMAMIDE	28	1, 2	Y
DIMETHYL GLUTARATE	10, 11	1, 2	Y
DIMETHYL HYDROGEN PHOSPHITE	10, 11, 28, 44	1, 2	Y
DIMETHYL OCTANOIC ACID	10, 11, 23, 30, 55, 56	1	Y
DIMETHYL PHTHALATE	10, 23, 55	1, 2	Y
DIMETHYLPOLYSILOXANE	10, 28	1, 2	Y
2,2-DIMETHYLPROPANE-1,3-DIOL (molten or solution)	10, 11	1, 2	Z
DIMETHYL SUCCINATE	10, 11, 23, 55	1, 2	Y
DINONYL PHTHALATE	10, 11, 28, 30, 47	1	Y
DIOCTYL PHTHALATE	10, 11, 28, 30	1	X
1,4-DIOXANE	5, 23, 29, 30, 55	1	Y
DIPENTENE	28	1, 2	Y
DIPHENYLAMINE (molten)	10, 11, 23, 28, 30, 47, 55, 56	1	Y
DIPHENYLAMINES, alkylated	10, 11, 23, 28, 30, 47, 55, 56	1	Y
DIPHENYL/DIPHENYL ETHER MIXTURES	10, 11, 23, 28, 30, 55	1	X
DIPHENYL ETHER	23, 28, 30, 55	1	X
DIPHENYL ETHER/DIPHENYL PHENYL ETHER MIXTURE	10, 11, 23, 28, 30, 55	1	X
DIPHENYLMETHANE DIISOCYANATE	4, 5, 9, 10, 11, 16, 17, 23, 28, 30, 47, 55, 56	1	Y
DIPHENYLOL PROPANE-EPICHLOROHYDRIN RESINS	10, 11, 28, 30, 55, 56	1	X
DI-n-PROPYLAMINE	10, 11, 13, 22, 28, 30	1	Y
DIPROPYLENE GLYCOL	10, 11	1, 2	Z
DISTILLED RESIN OIL	5, 28, 30, 47	1	Y
DITHIOCARBAMATE ESTER (C7-C35)	10, 11, 28, 30, 55	1	X
DITRIDECYL ADIPATE	10, 11, 28, 30, 47, 56	1	Y
DITRIDECYL PHTHALATE	10, 11, 28, 30, 47	1	Y

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Ship Name : **MARIANNE THERESA**

Certificate No : **1546**

IMO no : **8820286**

Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
DIUNDECYL PHTHALATE	10, 11, 28, 30, 55, 56	1	Y
DODECANE (all isomers)	10, 28, 30	1	Y
DODECENE (all isomers)	10, 28, 30	1	X
DODECYL ALCOHOL	10, 23, 28, 30, 55	1	Y
DODECYLAMINE/TETRADECYLAMINE MIXTURE	10, 11, 23, 28, 30, 47, 55	1	X
DODECYLBENZENE	10, 11	1, 2	Z
DODECYL DIPHENYL ETHER DISULPHONATE SOLUTION	23, 28, 30, 47, 56	1	X
DODECYL HYDROXYPROPYL SULPHIDE	10, 11, 28, 30	1	X
DODECYL METHACRYLATE	1, 11	1, 2	Z
DODECYL/OCTADECYL METHACRYLATE (mixture)	1, 2, 3, 10, 11, 42	1, 2	Z
DODECYL/PENTADECYL METHACRYLATE MIXTURE	1, 2, 3, 10, 11, 28, 30, 42	1	Y
DODECYL PHENOL	10, 11, 28, 30, 56	1	X
DODECYL XYLENE	10, 11, 28, 30, 56	1	Y
DRILLING BRINES (containing zinc salts)	10, 11, 28, 30	1	X
DRILLING BRINES, INCLUDING :-			
CALCIUM BROMIDE SOLUTION	10, 11	1, 2	Z
CALCIUM CHLORIDE SOLUTION	10, 11, 23	1, 2	Z
EPICHLOROHYDRIN	5, 11, 14, 29, 30	1	Y
ETHANOLAMINE	23, 55	1, 2	Y
2-ETHOXYETHYL ACETATE	28	1, 2	Y
ETHOXYLATED LONG CHAIN (C16+) ALKYL OXYALKYLAMINE	10, 11, 28, 30, 46, 55	1	Y
ETHYL ACETATE		1, 2	Z
ETHYL ACETOACETATE		1, 2	Z
ETHYL ACRYLATE	1, 2, 3, 14, 28, 30, 42	1	Y
ETHYL ALCOHOL	57	1, 2	Z
ETHYLBENZENE	28, 30	1	Y
ETHYL tert-BUTYL ETHER	10, 11, 28	1, 2	Y
ETHYLCYCLOHEXANE	28, 30	1	Y
N-ETHYLCYCLOHEXYLAMINE	10, 28, 30	1	Y
S-ETHYL DIPROPYLTHIOCARBAMATE	10, 11, 30, 55	1	Y
ETHYLENE CARBONATE	10, 11, 57	1, 2	Z
ETHYLENE CHLOROHYDRIN	5, 14, 29, 30	1	Y
ETHYLENE CYANOHYDRIN		1, 2	Y
ETHYLENEDIAMINE	23, 28, 30, 55	1	Y
ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT SOLUTION	10, 11, 28, 47	1, 2	Y
ETHYLENE DIBROMIDE	5, 14, 23, 28, 30, 55	1	Y
ETHYLENE DICHLORIDE	29, 30	1	Y
ETHYLENE GLYCOL	28	1, 2	Y
ETHYLENE GLYCOL ACETATE	10, 11, 28, 47	1, 2	Y
ETHYLENE GLYCOL BUTYL ETHER ACETATE	10, 11	1, 2	Y
ETHYLENE GLYCOL DIACETATE	10	1, 2	Y
ETHYLENE GLYCOL METHYL ETHER ACETATE	10, 11, 28, 47	1, 2	Y
ETHYLENE GLYCOL MONOALKYL ETHERS	10, 11, 28, 55	1, 2	Y
ETHYLENE GLYCOL PHENYL ETHER	10, 11, 23, 47, 55	1, 2	Z
ETHYLENE GLYCOL PHENYL ETHER / DIETHYLENE GLYCOL PHENYL ETHER MIXTURE	10, 11, 47, 55	1, 2	Z

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Ship Name : **MARIANNE THERESA**
Certificate No : **1546**
IMO no : **8820286**

Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
ETHYL-3-ETHOXYPROPIONATE	10, 11, 28	1, 2	Y
2-ETHYLHEXANOIC ACID	10, 11, 28	1, 2	Y
2-ETHYLHEXYL ACRYLATE	1, 2, 3, 28, 42	1, 2	Y
2-ETHYLHEXYLAMINE	5, 10, 28, 30	1	Y
2-ETHYL-2-(HYDROXYMETHYL) PROPANE-1,3-DIOL, C8-C10 ESTER	10, 11, 28, 30, 55, 56	1	Y
ETHYLIDENE NORBORNENE	10, 11, 28, 30, 44	1	Y
ETHYL METHACRYLATE	1, 2, 3, 28, 42	1, 2	Y
N-ETHYLMETHYLALLYLAMINE	13, 14, 29, 30	1	Y
ETHYL TOLUENE	10, 11, 28, 30	1	Y
FATTY ACID (saturated C13+)	10, 11, 28, 30, 55	1	Y
FATTY ACIDS, ESSENTIALLY LINEAR, C6-C18, 2-ETHYLHEXYL ESTER	28, 30	1	Y
FERRIC NITRATE/NITRIC ACID SOLUTION	6, 14, 26, 27, 29, 30, 59	1	Y
FISH OIL	10, 11, 28, 39, 46, 50, 55, 56	1	Y
FORMALDEHYDE SOLUTIONS (45% or less)	14, 23, 28, 55	1, 2	Y
FORMAMIDE	10, 11, 23, 28, 55	1, 2	Y
FORMIC ACID	6, 14, 19, 23, 26, 27, 28, 55	1, 2	Y
FURFURAL	28	1, 2	Y
FURFURYL ALCOHOL	10	1, 2	Y
GLUCOSE SOLUTION	58	1, 2	OS
GLUTARALDEHYDE SOLUTIONS (50% or less)	28	1, 2	Y
GLYCERINE	23, 57	1, 2	Z
GLYCEROL MONOOLEATE	10, 11, 23, 28, 30, 46, 55, 56	1	Y
GLYCERYL TRIACETATE	10	1, 2	Z
GLYCIDYL ESTER OF C10 TRIALKYLACETIC ACID	10, 11, 28, 30	1	Y
GLYCINE, SODIUM SALT SOLUTION		1, 2	Z
GLYCOLIC ACID SOLUTION (70% or less)	28, 55	1, 2	Z
GLYOXAL SOLUTION (40% or less)	10, 11, 28, 55	1, 2	Y
GLYOXYLIC ACID SOLUTION (50% or less)	2, 3, 6, 10, 11, 26, 27, 28, 33, 42, 47, 55	1, 2	Y
GLYPHOSATE SOLUTION (not containing surfactant)	10, 11, 28, 30, 55	1	Y
GROUNDNUT OIL	10, 23, 28, 39, 46, 50, 55, 56	1	Y
HEPTANE (all isomers)	11, 28, 30, 55	1	X
n-HEPTANOIC ACID	10, 11	1, 2	Z
HEPTANOL (all isomers)	10, 11, 28, 35	1, 2	Y
HEPTENE (all isomers)	10, 11, 28	1, 2	Y
HEPTYL ACETATE	10, 28, 30	1	Y
1-HEXADECYLNAPHTHALENE / 1,4-BIS(HEXADECYL)NAPHTHALENE MIXTURE	10, 11, 28, 30, 56	1	Y
HEXAMETHYLENEDIAMINE ADIPATE (50% in water)	23	1, 2	Z
HEXAMETHYLENEDIAMINE SOLUTION	10, 11, 23, 28	1, 2	Y
HEXAMETHYLENE GLYCOL	10, 11	1, 2	Z
HEXAMETHYLENEIMINE	10, 11, 28, 30	1	Y

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
HEXAMETHYLENETETRAMINE SOLUTIONS	57	1, 2	Z
HEXANE (all isomers)	10, 11, 28, 30	1	Y
1,6-HEXANEDIOL, DISTILLATION OVERHEADS	10, 11, 13, 28, 54, 55	1, 2	Y
HEXANOIC ACID	28	1, 2	Y
HEXANOL	10, 28	1, 2	Y
HEXENE (all isomers)	10, 11, 28	1, 2	Y
HEXYL ACETATE	10, 11, 28, 30	1	Y
HEXYLENE GLYCOL	10, 57	1, 2	Z
2-HYDROXYETHYL ACRYLATE	1, 2, 3, 5, 10, 11, 28, 30, 42	1	Y
N-(HYDROXYETHYL)ETHYLENEDIAMINETRIACETIC ACID, TRISODIUM SALT SOLUTION	10, 11, 28	1, 2	Y
2-HYDROXY-4-(METHYLTHIO)BUTANOIC ACID	10, 11	1, 2	Z
ILLIPE OIL	10, 11, 28, 39, 47, 50, 55, 56	1	Y
ISOAMYL ALCOHOL		1, 2	Z
ISOBUTYL ALCOHOL		1, 2	Z
ISOBUTYL FORMATE	10	1, 2	Z
ISOBUTYL METHACRYLATE	1, 2, 3, 5, 11, 14, 29, 42	1, 2	Z
ISOPHORONE	10	1, 2	Y
ISOPHORONEDIAMINE	10, 23, 55	1, 2	Y
ISOPHORONE DIISOCYANATE	4, 5, 9, 10, 28, 30	1	X
ISOPROPANOLAMINE	23, 28, 55, 56	1, 2	Y
ISOPROPYL ACETATE	10	1, 2	Z
ISOPROPYL ALCOHOL	57	1, 2	Z
ISOPROPYLCYCLOHEXANE	10, 11, 28, 30, 55	1	Y
ISOPROPYL ETHER	7, 8, 10, 28, 31	1, 2	Y
LACTIC ACID	10, 11, 23	1, 2	Z
LARD	10, 23, 28, 39, 46, 50, 55, 56	1	Y
LATEX, ammonia (1% or less), inhibited	10, 11, 28, 47, 55, 56	1, 2	Y
LATEX : Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber	10, 11, 47, 55	1, 2	Z
LAURIC ACID	10, 11, 23, 28, 30, 55, 56	1	X
LECITHIN	10, 11, 47, 58	1, 2	OS
LIGNINSULPHONIC ACID, SODIUM SALT SOLUTION	10, 11, 47, 55	1, 2	Z
LINSEED OIL	10, 28, 39, 46, 50, 55, 56	1	Y
LONG-CHAIN ALKARYL POLYETHER (C11-C20)	10, 11, 30, 55, 56	1	Y
LONG-CHAIN ALKARYL SULPHONIC ACID (C16-C60)	10, 11, 28, 30, 47, 55	1	Y
LONG-CHAIN ALKYLPHENATE/PHENOL SULPHIDE MIXTURE	10, 11, 28, 30, 47, 55, 56	1	Y
L-LYSINE SOLUTION (60% or less)	10, 11	1, 2	Z
MAGNESIUM CHLORIDE SOLUTION	10, 11	1, 2	Z
MAGNESIUM-LONG CHAIN ALKARYL SULPHONATE (C11-C50)	10, 11, 28, 30, 47, 55, 56	1	Y
MAGNESIUM-LONG CHAIN ALKYL SALICYLATE (C11+)	10, 11, 28, 30, 47, 55, 56	1	Y
MALEIC ANHYDRIDE	18, 23, 55	1, 2	Y
MANGO KERNEL OIL	10, 11, 28, 39, 47, 50, 55, 56	1	Y

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
MERCAPTOBENZOTHAZOL, SODIUM SALT SOLUTION	28, 30, 55	1	X
MESITYL OXIDE	28	1, 2	Z
METHACRYLIC ACID - ALKOXPOLY (ALKYLENE OXIDE)	47, 49, 55	1, 2	Z
METHACRYLATE COPOLYMER, SODIUM SALT AQUEOUS SOLN ...			
METHACRYLIC ACID	1, 2, 11, 23, 28, 42, 55	1, 2	Y
METHACRYLIC RESIN IN ETHYLENE DICHLORIDE	29, 30, 55	1	Y
METHACRYLONITRILE	1, 5, 10, 11, 14, 29, 30	1	Y
3-METHOXY-1-BUTANOL	10, 11	1, 2	Z
3-METHOXYBUTYL ACETATE	10, 11, 28	1, 2	Y
2-METHYL-1,3-PROPANEDIOL	10, 11, 47	1, 2	Z
METHYL ACETATE		1, 2	Z
METHYL ACETOACETATE		1, 2	Z
METHYL ACRYLATE	1, 2, 3, 14, 28, 30, 42	1	Y
METHYL ALCOHOL	28	1, 2	Y
METHYLAMINE SOLUTIONS (42% or less)	5, 10, 14, 22, 29, 30	1	Y
METHYLAMYL ACETATE	28, 30	1	Y
METHYLAMYL ALCOHOL	28	1, 2	Z
METHYL AMYL KETONE	10, 11, 28	1, 2	Z
METHYLBUTENOL	10, 11, 28, 55	1, 2	Y
METHYL tert-BUTYL ETHER	10, 22	1, 2	Z
METHYL BUTYL KETONE	28	1, 2	Y
METHYLBUTYNOL	10, 11, 23	1, 2	Z
METHYL BUTYRATE	10, 11, 28	1, 2	Y
METHYLCYCLOHEXANE	28, 30	1	Y
METHYLCYCLOPENTADIENE DIMER	10, 11, 28, 30	1	Y
METHYL DIETHANOLAMINE	10, 11, 56	1, 2	Y
2-METHYL-6-ETHYL ANILINE	10, 11	1, 2	Y
METHYL ETHYL KETONE		1, 2	Z
2-METHYL-5-ETHYL PYRIDINE	28	1, 2	Y
N-METHYLGLUCAMINE SOLUTION (70% or less)	10, 11, 57	1, 2	Z
2-METHYL-2-HYDROXY-3-BUTYNE	11, 23, 28, 55	1, 2	Z
METHYL ISOBUTYL KETONE		1, 2	Z
METHYL METHACRYLATE	1, 2, 3, 28, 30, 42	1	Y
3-METHYL-3-METHOXYBUTANOL	10	1, 2	Z
METHYL NAPHTHALENE (molten)	10, 11, 23, 28, 30	1	X
METHYL PROPYL KETONE	10, 57	1, 2	Z
2-METHYLPYRIDINE	10, 11, 13, 22, 28, 30	1	Z
3-METHYLPYRIDINE	10, 11, 13, 29, 30	1	Z
4-METHYLPYRIDINE	10, 11, 13, 23, 29, 30, 55	1	Z
N-METHYL-2-PYRROLIDONE	10, 11, 28	1, 2	Y
METHYL SALICYLATE	10, 28	1, 2	Y
alpha-METHYLSTYRENE	1, 2, 3, 28, 30, 36, 42	1	Y
3-(METHYLTHIO)PROPIONALDEHYDE	5, 14, 29, 30, 46	1	Y
MOLASSES	10, 11, 58	1, 2	OS
MORPHOLINE	28	1, 2	Y
MYRCENE	10, 11, 28, 30, 47, 55	1	X

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Tank groups referred to in this list are identified on the tank group key on Page 22.

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
NAPHTHALENESULPHONIC ACID - FORMALDEHYDE COPOLYMER, SODIUM SALT SOLUTION	10, 11, 47, 55	1, 2	Z
NEODECANOIC ACID	10, 11, 30	1	Y
NITRATING ACID (mixture of sulphuric and nitric acids)	4, 6, 14, 26, 27, 29, 30, 59	1	Y
NITRIC ACID (70% and over)	6, 14, 26, 27, 29, 30, 59	1	Y
NITRIC ACID (less than 70%)	6, 14, 26, 27, 29, 30, 59	1	Y
NITRILOTRIACETIC ACID, TRISODIUM SALT SOLUTION	10, 11, 28	1, 2	Y
NITROBENZENE	5, 23, 29, 30, 55	1	Y
NITROETHANE	2, 3, 11, 18, 28, 34, 42	1, 2	Y
NITROETHANE(80%)/ NITROPROPANE(20%)	2, 3, 11, 18, 28, 33, 42	1, 2	Y
NITROETHANE, 1-NITROPROPANE (each 15% or more) MIXTURE	2, 3, 10, 11, 28, 33, 42, 47, 56	1, 2	Y
o-NITROPHENOL (molten)	5, 10, 11, 23, 28, 30, 55, 56	1	Y
1-or 2-NITROPROPANE	28	1, 2	Y
NITROPROPANE (60%)/NITROETHANE (40%) MIXTURE	18, 28	1, 2	Y
o- or p-NITROTOLUENES	5, 11, 23, 28, 30, 47	1	Y
NONANE (all isomers)	10, 11, 28, 30	1	X
NONANOIC ACID (all isomers)	10, 11, 23, 28, 55	1, 2	Y
NONENE (all isomers)	10, 11, 28, 30	1	Y
NONYL ALCOHOL (all isomers)	10, 11, 28, 30	1	Y
NONYL METHACRYLATE MONOMER	10, 11, 28, 30, 55	1	Y
NONYLPHENOL POLY (4+) ETHOXYLATE	10, 11, 23, 28, 30, 47, 56	1	Y
NOXIOUS LIQUID, NF, (3) n.o.s. (trade name, contains) ST2, Cat. X	10, 11, 29, 30, 56	1	X
NOXIOUS LIQUID, F, (4) n.o.s. (trade name, contains) ST2, Cat. X	29, 30, 56	1	X
NOXIOUS LIQUID, NF, (5) n.o.s. (trade name, contains) ST2, Cat. Y	10, 11, 29, 30, 43, 55, 56	1	Y
NOXIOUS LIQUID, F, (6) n.o.s. (trade name, contains) ST2, Cat. Y	29, 30, 43, 55, 56	1	Y
NOXIOUS LIQUID, NF, (7) n.o.s. (trade name, contains) ST3, Cat. Y	10, 11, 29, 43, 55, 56	1, 2	Y
NOXIOUS LIQUID, F, (8) n.o.s. (trade name, contains) ST3, Cat. Y	29, 43, 55, 56	1, 2	Y
NOXIOUS LIQUID, NF, (9) n.o.s. (trade name, contains) ST3, Cat. Z	10, 11	1, 2	Z
NOXIOUS LIQUID, F, (10) n.o.s. (trade name, contains) ST3, Cat. Z		1, 2	Z
NOXIOUS LIQUID, (11) n.o.s. (trade name, contains) Cat. Z	10, 11, 45, 57	1, 2	Z
NON-NOXIOUS LIQUID, (12) n.o.s. (trade name, contains) Cat. OS	10, 11, 45, 58	1, 2	OS
OCTANE (all isomers)	10, 28, 30	1	X
OCTANOIC ACID (all isomers)	10, 11, 23	1, 2	Z
OCTANOL (all isomers)	10, 11, 30	1	Y
OCTENE (all isomers)	28, 30	1	Y
n-OCTYL ACETATE	10, 11, 28, 47, 55	1, 2	Y
OCTYL ALDEHYDES	10, 11, 23, 28, 30, 55	1	Y
OCTYL DECYL ADIPATE	10, 11, 28, 30, 47, 55	1	Y
OLEFIN-ALKYL ESTER COPOLYMER (molecular weight 2000+)	10, 11, 23, 28, 30, 55, 56	1	Y
OLEFINS (C13+, all isomers)	10, 11, 28, 30, 55	1	Y
OLEFIN MIXTURES (C5-C7)	10, 11, 28, 47	1, 2	Y
OLEFIN MIXTURES (C5-C15)	10, 11, 28, 30, 47	1	X
alpha-OLEFINS (C6-C18) mixtures	10, 11, 28, 30, 47, 55	1	X
OLEIC ACID	23, 28, 30, 55	1	Y

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Ship Name : **MARIANNE THERESA**

Certificate No : **1546**

IMO no : **8820286**

Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
OLEUM	4, 6, 14, 26, 27, 29, 30, 44, 56, 59	1	Y
OLEYLAMINE	10, 11, 23, 28, 30, 47, 55	1	X
OLIVE OIL	10, 28, 39, 46, 50, 55, 56	1	Y
OXYGENATED ALIPHATIC HYDROCARBON MIXTURE	10, 11, 47	1, 2	Z
PALM ACID OIL	10, 11, 28, 30, 47, 55, 56	1	Y
PALM FATTY ACID DISTILLATE	10, 11, 28, 30, 47, 55, 56	1	Y
PALM KERNEL OIL	10, 11, 23, 28, 39, 46, 50, 55, 56	1	Y
PALM KERNEL OLEIN	10, 11, 28, 39, 47, 50, 55, 56	1	Y
PALM KERNEL STEARIN	10, 11, 28, 39, 47, 50, 55, 56	1	Y
PALM OIL FATTY ACID METHYL ESTER	10, 11, 28, 30, 47, 55	1	Y
PALM OIL	10, 23, 28, 39, 46, 50, 55, 56	1	Y
PALM OLEIN	10, 11, 28, 39, 46, 50, 55, 56	1	Y
PALM STEARIN	10, 28, 39, 46, 50, 55, 56	1	Y
PARAFFIN WAX	10, 23, 28, 30, 55, 56	1	Y
PARALDEHYDE	23, 28, 55	1, 2	Z
PARALDEHYDE-AMMONIA REACTION PRODUCT	10, 11, 13, 29, 30	1	Y
PENTACHLOROETHANE	5, 28, 30	1	Y
1,3-PENTADIENE	1, 2, 3, 10, 22, 28, 33, 42	1, 2	Y
PENTANOIC ACID	10, 11, 28	1, 2	Y
n-PENTANOIC ACID (64%)/2-METHYL BUTYRIC ACID (36%) MIXTURE	6, 10, 13, 26, 27, 29, 30	1	Y
n-PENTYL PROPIONATE	10, 11, 28	1, 2	Y
PERCHLOROETHYLENE	28, 30, 44, 53	1	Y
PETROLATUM	10, 11, 23, 28, 30, 46, 55, 56	1	Y
PHENOL	5, 23, 29, 30, 32, 55	1	Y
1-PHENYL-1-XYLYL ETHANE	10	1, 2	Y
PHOSPHATE ESTERS, ALKYL (C12-C14) AMINE	10, 11, 28, 30, 47, 55, 56	1	Y
PHOSPHORIC ACID	6, 23, 26, 27, 55	1, 2	Z
alpha-PINENE	10, 28, 30	1	X
beta-PINENE	10, 11, 28, 30	1	X
PINE OIL	10, 11, 30, 55, 56	1	X
POLYACRYLIC ACID SOLUTION (40% or less)	10, 11, 47	1, 2	Z
POLYALKYL (C18-C22) ACRYLATE IN XYLENE	10, 11, 23, 28, 30, 46, 55, 56	1	Y
POLYALKYL (C10-C20) METHACRYLATE	10, 11, 28, 30, 55, 56	1	Y
POLYALKYL (C10-C18) METHACRYLATE/ETHYLENE-PROPYLENE COPOLYMER MIXTURE	10, 11, 28, 30, 55, 56	1	Y
POLY(2-8) ALKYLENE GLYCOL MONOALKYL (C1-C6) ETHER	10, 11, 47	1, 2	Z
POLY(2-8) ALKYLENE GLYCOL MONOALKYL (C1-C6) ETHER ACETATE	10, 11, 28, 30, 47	1	Y
POLYALUMINIUM CHLORIDE SOLUTION	57	1, 2	Z

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
POLYBUTENE	10, 11, 23, 28, 30, 47, 56	1	Y
POLYBUTENYLSUCCINIMIDE	10, 11, 28, 30, 47, 55, 56	1	Y
POLYETHYLENE GLYCOL	10, 11, 23	1, 2	Z
POLYETHYLENE GLYCOL DIMETHYL ETHER	10	1, 2	Z
POLYETHYLENE POLYAMINES	10, 11, 28, 30, 47, 55	1	Y
POLYFERRIC SULPHATE SOLUTION		1, 2	Y
POLYGLYCERIN, SODIUM SALT SOLUTION (containing less than 3% sodium hydroxide)	10, 11, 47, 57	1, 2	Z
POLY(IMINOETHYLENE)-GRAFT-N-POLY(ETHYLENEOXY) SOLUTION (90% or less)	47, 55	1, 2	Z
POLYISOBUTENAMINE IN ALIPHATIC (C10-C14) SOLVENT		1, 2	Y
POLYISOBUTENYL ANHYDRIDE ADDUCT	10, 11	1, 2	Z
POLY(4+)ISOBUTYLENE	10, 11, 28, 30, 55	1	Y
POLYMETHYLENE POLYPHENYL ISOCYANATE	4, 5, 9, 10, 11, 16, 23, 28, 30, 47, 55	1	Y
POLYOLEFIN (molecular weight 300+)	10, 11, 28, 30, 47, 55, 56	1	Y
POLYOLEFIN AMIDE ALKENEAMINE (C17+)	10, 11, 28, 30, 56	1	Y
POLYOLEFIN AMIDE ALKENEAMINE BORATE (C28-C250)	10, 11, 28, 30, 55, 56	1	Y
POLYOLEFINAMINE (C28-C250)	10, 11, 30, 55	1	Y
POLYOLEFINAMINE IN ALKYL (C2-C4) BENZENES	10, 11, 28, 30, 55, 56	1	Y
POLYOLEFINAMINE IN AROMATIC SOLVENT	10, 11, 23, 28, 30, 55, 56	1	Y
POLYOLEFIN AMINOESTER SALTS (molecular weight 2000+)	10, 11, 23, 28, 30, 47, 55, 56	1	Y
POLYOLEFIN ANHYDRIDE	10, 11, 28, 30, 55, 56	1	Y
POLYOLEFIN ESTER (C28-C250)	10, 11, 28, 30, 55, 56	1	Y
POLYOLEFIN PHENOLIC AMINE (C28-C250)	10, 11, 28, 30, 55, 56	1	Y
POLYOLEFIN PHOSPHOROSULPHIDE, BARIUM DERIVATIVE (C28-C250)	10, 11, 30, 55, 56	1	Y
POLY(20)OXYETHYLENE SORBITAN MONOOLEATE	10, 11, 23, 28, 30, 55, 56	1	Y
POLY (5+) PROPYLENE	10, 11, 28, 47, 55	1, 2	Y
POLYPROPYLENE GLYCOL	10, 11	1, 2	Z
POLYSILOXANE	10, 11, 28, 55	1, 2	Y
POTASSIUM CHLORIDE SOLUTION (10% or more)	10, 11, 47, 55	1, 2	Z
POTASSIUM FORMATE SOLUTIONS	10, 11, 57	1, 2	Z
POTASSIUM HYDROXIDE SOLUTION	21, 23, 28	1, 2	Y
POTASSIUM OLEATE	10, 11, 23, 28, 30, 55, 56	1	Y
POTASSIUM THIOSULPHATE (50% or less)	55	1, 2	Y
n-PROPANOLAMINE	10, 11, 23, 28, 55	1, 2	Y
beta-PROPIOLACTONE	11, 30	1	Y
PROPIONALDEHYDE	10, 14, 22, 28	1, 2	Y
PROPIONIC ACID	6, 14, 26, 27, 28	1, 2	Y
PROPIONIC ANHYDRIDE		1, 2	Y
n-PROPYL ACETATE	10, 28	1, 2	Y
n-PROPYL ALCOHOL	28	1, 2	Y
n-PROPYLAMINE	5, 8, 14, 22, 29, 30	1	Z
PROPYLBENZENE (all isomers)	10, 11, 28	1, 2	Y
PROPYLENE CARBONATE	10, 11, 57	1, 2	Z

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Tank groups referred to in this list are identified on the tank group key on Page 22.

List of Products

Ship Name : **MARIANNE THERESA**

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
PROPYLENE GLYCOL	10, 11, 57	1, 2	Z
PROPYLENE GLYCOL METHYL ETHER ACETATE	10, 11	1, 2	Z
PROPYLENE GLYCOL MONOALKYL ETHER	10, 11	1, 2	Z
PROPYLENE GLYCOL PHENYL ETHER	10, 11, 23	1, 2	Z
PROPYLENE TETRAMER	10, 28, 30	1	X
PROPYLENE TRIMER	11, 28, 30	1	Y
PYRIDINE	28, 30	1	Y
PYROLYSIS GASOLINE (containing benzene)	5, 28, 30, 47	1	Y
RAPESEED OIL	10, 28, 39, 46, 50, 55, 56	1	Y
RAPE SEED OIL FATTY ACID METHYL ESTERS	10, 28, 30, 47	1	Y
RICE BRAN OIL	10, 11, 28, 39, 47, 50, 55, 56	1	Y
SAFFLOWER OIL	10, 11, 28, 39, 47, 50, 55, 56	1	Y
SODIUM ACETATE SOLUTIONS	57	1, 2	Z
SODIUM ALKYL (C14-C17) SULPHONATES (60-65% solution)	28, 30, 47, 55, 56	1	Y
SODIUM BENZOATE	10, 11	1, 2	Z
SODIUM BOROHYDRIDE (15% or less)/SODIUM HYDROXIDE SOLUTION	28, 55, 56	1, 2	Y
SODIUM CARBONATE SOLUTION	10, 11	1, 2	Z
SODIUM CHLORATE SOLUTION (50% or less)	23, 25, 28, 55	1, 2	Z
SODIUM DICHROMATE SOLUTION (70% or less)	13, 29, 30	1	Y
SODIUM HYDROGEN SULPHIDE (6% or less)/SODIUM CARBONATE (3% or less) SOLUTION	28, 55	1, 2	Z
SODIUM HYDROGEN SULPHITE SOLUTION (45% or less)	55	1, 2	Z
SODIUM HYDROSULPHIDE SOLUTION (45% or less)	12, 23, 28, 41, 52, 55	1, 2	Z
SODIUM HYDROXIDE SOLUTION	20, 23, 24, 55, 56	1, 2	Y
SODIUM NITRITE SOLUTION	13, 29, 30, 55	1	Y
SODIUM PETROLEUM SULFONATE	10, 11, 28, 30, 47, 56	1	Y
SODIUM POLY (4+) ACRYLATE SOLUTIONS	10, 11, 47, 55	1, 2	Z
SODIUM SILICATE SOLUTION	55	1, 2	Y
SODIUM SULPHATE SOLUTIONS	10, 11, 57	1, 2	Z
SODIUM SULPHIDE SOLUTION (15% or less)	23, 28, 55	1, 2	Y
SODIUM SULPHITE SOLUTION (25% or less)	28, 55	1, 2	Y
SODIUM THIOCYANATE SOLUTION (56% or less)	10, 11, 28, 55	1, 2	Y
SORBITOL SOLUTION	10, 11, 47, 58	1, 2	OS
SOYABEAN OIL	10, 23, 28, 39, 46, 50, 55, 56	1	Y
STYRENE MONOMER	1, 2, 3, 28, 42, 47, 51	1, 2	Y
SULPHOHYDROCARBON (C3-C88)	10, 11, 28, 30, 47, 55, 56	1	Y
SULPHOLANE	10, 11, 23, 28, 55	1, 2	Y
SULPHONATED POLYACRYLATE SOLUTION	10, 11	1, 2	Z
SULPHURIC ACID	4, 6, 23, 26, 27, 28, 59	1	Y
SULPHURIC ACID, spent	4, 6, 23, 26, 27, 28, 59	1	Y
SULPHURIZED FAT (C14-C20)	10, 11	1, 2	Z
SULPHURIZED POLYOLEFINAMIDE ALKENE (C28-C250) AMINE	10, 11, 47	1, 2	Z

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Tank groups referred to in this list are identified on the tank group key on Page 22.

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
SUNFLOWER SEED OIL	10, 11, 28, 39, 46, 50, 55, 56	1	Y
TALL OIL (crude and distilled)	10, 11, 23, 28, 30, 47, 55, 56	1	Y
TALL OIL FATTY ACID (resin acids less than 20%)	10, 11, 24, 28, 30, 47, 55, 56	1	Y
TALLOW	10, 23, 28, 39, 46, 50, 55, 56	1	Y
TALLOW FATTY ACID	10, 11, 28, 30, 47, 55, 56	1	Y
TETRACHLOROETHANE	5, 28, 30	1	Y
TETRAETHYL SILICATE MONOMER/OLIGOMER (20% in ethanol)	10, 11, 57	1, 2	Z
TETRAETHYLENE GLYCOL	10, 11, 23	1, 2	Z
TETRAETHYLENE PENTAMINE	10, 30	1	Y
TETRAHYDROFURAN	22, 28	1, 2	Z
TETRAHYDRONAPHTHALENE	30	1	Y
TETRAMETHYLBENZENE (all isomers)	10, 11, 24, 30, 55	1	X
TOLUENE	28	1, 2	Y
TOLUENE DIISOCYANATE	4, 5, 9, 14, 17, 23, 29, 30, 55	1	Y
o-TOLUIDINE	5, 10, 29, 30	1	Y
TRIBUTYL PHOSPHATE	10, 28	1, 2	Y
1,1,1-TRICHLOROETHANE	10, 11	1, 2	Y
1,1,2-TRICHLOROETHANE	28, 44	1, 2	Y
TRICHLOROETHYLENE	5, 28, 30	1	Y
1,2,3-TRICHLOROPROPANE	5, 10, 11, 29, 30	1	Y
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	22, 30	1	Y
TRICRESYL PHOSPHATE (containing less than 1% ortho-isomer)	10, 28, 30, 47, 56	1	Y
TRIDECANE	10, 11, 28, 30	1	Y
TRIDECANOIC ACID	10, 11, 23, 28, 30, 55, 56	1	Y
TRIDECYL ACETATE	10, 11	1, 2	Z
TRIETHANOLAMINE	11, 23, 55	1, 2	Z
TRIETHYLAMINE	5, 14, 28, 30	1	Y
TRIETHYLBENZENE	10, 11, 28, 30	1	X
TRIETHYLENE GLYCOL	10, 57	1, 2	Z
TRIETHYLENETETRAMINE	30	1	Y
TRIETHYL PHOSPHATE	10, 11	1, 2	Z
TRIETHYLPHOSPHITE	10, 11, 28, 44, 55	1, 2	Z
TRIIISOPROPANOLAMINE	10, 11, 23	1, 2	Z
TRIIISOPROPYLATED PHENYL PHOSPHATES	10, 11, 28, 30, 56	1	X
TRIMETHYLACETIC ACID	6, 10, 11, 23, 26, 27, 28, 30, 46, 55, 56, 59	1	Y
TRIMETHYLBENZENE (all isomers)	10, 11, 28, 30	1	X
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE	10, 11	1, 2	Z
2,2,4-TRIMETHYL-1,3-PENTANEDIOL-1-ISOBUTYRATE	10, 30	1	Y
TRIPROPYLENE GLYCOL	10, 11	1, 2	Z

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Tank groups referred to in this list are identified on the tank group key on Page 22.

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Product (as referred to in paragraph 3)	Conditions of Carriage		Pollution Category
	Notes	Tank Groups	
TRIXYL PHOSPHATE	10, 11, 28, 30, 56	1	X
TUNG OIL	10, 23, 28, 39, 46, 50, 55, 56	1	Y
TURPENTINE	10, 28, 30	1	X
UNDECANOIC ACID	10, 11, 23, 30, 55, 56	1	Y
1-UNDECENE	10, 11, 28, 30	1	X
UNDECYL ALCOHOL	10, 11, 23, 28, 30, 55	1	X
UREA/AMMONIUM NITRATE SOLUTION	10, 11	1, 2	Z
UREA/AMMONIUM NITRATE SOLUTION (containing less than 1% free ammonia)	46, 55	1, 2	Z
UREA/AMMONIUM PHOSPHATE SOLUTION	10, 11, 28, 30	1	Y
UREA SOLUTION	10, 11	1, 2	Z
VALERALDEHYDE (all isomers)	7, 8, 28	1, 2	Y
VEGETABLE PROTEIN SOLUTION (hydrolysed)	10, 11	1, 2	Z
VINYL ACETATE	1, 2, 3, 28, 42	1, 2	Y
VINYL NEODECANOATE	1, 2, 3, 10, 28, 30, 42	1	Y
VINYLTOLUENE	1, 2, 3, 28, 30, 42	1	Y
WATER	58	1, 2	OS
WAXES	10, 11, 23, 28, 30, 46, 55, 56	1	Y
WHITE SPIRIT, low (15-20%) aromatic	10, 28, 30, 47, 55	1	Y
XYLENES	11, 23, 28, 30, 37, 55	1	Y
XYLENES/ETHYLBENZENE (10% or more) mixture	10, 11, 28, 30, 47	1	Y
XYLENOL	24, 28, 30, 46, 55	1	Y
ZINC ALKARYL DITHIOPHOSPHATE (C7-C16)	10, 11, 30, 55, 56	1	Y
ZINC ALKENYL CARBOXAMIDE	10, 11, 28, 30, 56	1	Y
ZINC ALKYL DITHIOPHOSPHATE (C3-C14)	10, 11, 28, 30, 56	1	Y

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Tank groups referred to in this list are identified on the tank group key on Page 22.

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Tank Group Key

Tank Group	Tank Group Type	Tank List
1	CARGO	1 to 6 (P + S)
2	SLOP	P + S

not valid

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Tank numbers referred to in this key are identified on the annexed tank plan on Page 40.

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Operational Notes

- 1 IBC Code paragraph 15.13 or BCH Code paragraph 4.10, as applicable, must be complied with. Attention is drawn to the following :-
- (i) This cargo, by the nature of its chemical make-up, tends, under certain conditions of temperature, exposure to air or contact with a catalyst, to undergo polymerization, decomposition, oxidation or other chemical changes. Mitigation of this tendency is carried out by introducing small amounts of chemical additives into the liquid cargo or controlling the cargo tank environment. (IBC 15.13.1) (BCH 4.10.1)
 - (ii) Ships carrying this cargo shall be so designed as to eliminate from the cargo tanks and cargo-handling system any material of construction or contaminants which could act as a catalyst or destroy the inhibitor. (IBC 15.13.2) (BCH 4.10.2)
 - (iii) Care shall be taken to ensure that this cargo is sufficiently protected to prevent deleterious chemical change at all times during the voyage. A certificate of protection shall be provided from the manufacturer, and kept during the voyage, specifying:
(IBC 15.13.3) (BCH 4.10.3)
 - .1 the name and amount of additive present;
 - .2 whether the additive is oxygen-dependent;
 - .3 date additive was put in the product and duration of effectiveness;
 - .4 any temperature limitations qualifying the additives' effective lifetime; and
 - .5 the action to be taken if the length of voyage exceeds the effective lifetime of the additives.
 - (iv) Ships using the exclusion of air as the method of preventing oxidation of the cargo shall comply with IBC Code paragraph 9.1.3 or BCH Code paragraph 2.19.3. (IBC 15.13.4) (BCH 4.10.4)
 - (v) A product containing an oxygen-dependent additive shall be carried without inertion (in tanks of a size not greater than 3000 cubic metres). Such cargoes shall not be carried in a tank requiring inertion under the requirements of SOLAS chapter II-2. (IBC 15.13.5) (BCH 4.10.5)
 - (vi) Care is to be taken to ensure that polymer does not build up in the ventilation system. Venting equipment shall be of a type that can be checked periodically for adequacy of operation. (IBC 15.13.6) (BCH 4.10.6).
 - (vii) Crystallization or solidification of cargoes normally carried in the molten state can lead to depletion of inhibitor in parts of the tank's contents. Subsequent remelting can thus yield pockets of uninhibited liquid, with the accompanying risk of

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dangerous polymerization. To prevent this, care shall be taken to ensure that at no time are such cargoes allowed to crystallize or solidify, either wholly or partially, in any part of the tank. Any required heating arrangements shall be such as to ensure that in no part of the tank does cargo become overheated to such an extent that any dangerous polymerization can be initiated. If the temperature from steam coils would induce overheating, an indirect low-temperature heating system shall be used. (IBC 15.13.7) (BCH 4.10.7)

2 IBC Code paragraph 16.6.1 or BCH Code paragraph 4.18.1, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Where the possibility exists of a dangerous reaction of this cargo, such as polymerization, decomposition, thermal instability or evolution of gas, resulting from local overheating of the cargo in either the tank or associated pipelines, the cargo shall be loaded and carried adequately segregated from other products whose temperature is sufficiently high to initiate a reaction. [See also IBC paragraph 7.1.5.4] (IBC 16.6.1) (BCH 4.18.1)

3 IBC Code paragraph 16.6.2 or BCH Code paragraph 4.18.2, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Heating coils in tanks carrying this product shall be blanked off or secured by equivalent means. (IBC 16.6.2) (BCH 4.18.2).

4 IBC Code paragraph 15.16.2 or BCH Code paragraph 4.15.2, as applicable, must be complied with. Attention is drawn to the following:-

Water shall not be allowed to contaminate this cargo. In addition, the following provisions apply:

- (i) Air inlets to pressure/vacuum-relief valves of tanks containing this cargo shall be situated at least 2 m above the weather deck. (IBC 15.16.2.1) (BCH 4.15.2(a))
- (ii) Water or steam shall not be used as the heat-transfer media in a cargo temperature control system. (IBC 15.16.2.2) (BCH 4.15.2(b))
- (iii) This cargo shall not be carried in tanks adjacent to ballast tanks or water tanks unless the tanks are empty and dry. (IBC 15.16.2.3) (BCH 4.15.2(c))
- (iv) This cargo shall not be carried in tanks adjacent to slop tanks or cargo tanks containing ballast or slops or other cargoes containing water which may react in a dangerous manner. Pumps, pipes and vent lines serving such tanks shall be separate from similar equipment serving tanks containing the cargo. Pipelines from slop tanks or ballast lines shall not pass through tanks containing this cargo unless encased in a tunnel. (IBC 15.16.2.4) (BCH 4.15.2(d))

5 IBC Code paragraph 15.12 or BCH Code paragraph 4.9, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Exhaust openings of tank vent systems shall be located as specified in IBC 15.12.1 (BCH 4.9.1)

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(ii) Tank venting systems shall be provided with a connection for a vapour-return line to the shore installation. (IBC 15.12.2) (BCH 4.9.2)

(iii) This product shall:

.1 not be stowed adjacent to oil fuel tanks. (IBC 15.12.3.1) (BCH 4.9.3(a))

.2 have a separate piping system from tanks containing non-toxic products. (IBC 15.12.3.2) (BCH 4.9.3(b))

.3 have tank vent systems separate from tanks containing non-toxic products. (IBC 15.12.3.3) (BCH 4.9.3(c))

(iv) Cargo tank relief-valve settings shall be a minimum of 0.02 MPa gauge. (IBC 15.12.4) (BCH 4.9.4)

6 IBC Code paragraph 15.11.7 or BCH Code paragraph 4.8.7, as applicable, must be complied with. Attention is drawn to the following :-

(i) Provision shall be made for suitable apparatus to detect leakage of this cargo into adjacent spaces. (IBC 15.11.7) (BCH 4.8.7)

7 IBC Code paragraph 15.4.6 or BCH Code paragraph 4.2.7, as applicable, must be complied with. Attention is drawn to the following :-

(i) Provision shall be made to maintain the inert-gas pad in the cargo tank during loading, unloading and transit. (IBC 15.4.6) (BCH 4.2.7)

8 IBC Code paragraph 9.1 or BCH Code paragraph 2.19, as applicable, must be complied with. Attention is drawn to the following :-

Environmental control: Inerting: by filling the cargo tank and associated piping systems and, where specified in Chapter 15 of the IBC Code or Chapter IV of the BCH Code, as applicable, the spaces surrounding the cargo tanks, with a gas or vapour which will not support combustion and which will not react with the cargo, and maintaining that condition. (IBC 9.1.2.1) (BCH 2.19.2(a))

(i) An adequate supply of inert gas for use in filling and discharging the cargo tanks shall be carried or shall be manufactured onboard unless a shore supply is available. In addition, sufficient inert gas shall be available on the ship to compensate for normal losses during transportation. (IBC 9.1.3.1) (BCH 2.19.3(a))

(ii) The inert gas system on board the ship shall be able to maintain a pressure of at least 0.007 MPa gauge within the containment system at all times. In addition, the inert gas system shall not raise the cargo tank pressure to more than the tank's relief-valve setting. (IBC 9.1.3.2) (BCH 2.19.3(b))

(iii) The ullage space containing a gas blanket shall be monitored to ensure that the correct atmosphere is being maintained. (IBC 9.1.3.4) (BCH 2.19.3(d))

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- (iv) Inerting or padding arrangements or both, where used with flammable cargoes, shall be such as to minimise the creation of static electricity during the admission of the inerting medium. (IBC 9.1.3.5) (BCH 2.19.3(e))

- 9 IBC Code paragraph 9.1 or BCH Code paragraph 2.19, as applicable, must be complied with. Attention is drawn to the following :-

Environmental control: Drying: by filling the cargo tank and associated piping systems with moisture-free gas or vapour with a dewpoint of minus 40 degrees Centigrade or below at atmospheric pressure, and maintaining that condition. (IBC 9.1.2.3) (BCH 2.19.2(c))

- (i) An adequate supply of drying medium for use in filling and discharging the cargo tanks shall be carried or shall be manufactured on board unless a shore supply is available. In addition, sufficient drying medium shall be available on the ship to compensate for normal losses during transportation. (IBC 9.1.3.1) (BCH 2.19.3(a))
- (ii) A drying system using dry nitrogen as the drying medium shall be able to maintain a pressure of at least 0.007 MPa gauge within the containment system at all times. In addition, the drying system shall not raise the tank pressure to more than the tank's relief-valve setting. (IBC 9.1.3.2) (BCH 2.19.3(b)).
- (iii) The ullage space containing a gas blanket shall be monitored to ensure that the correct atmosphere is being maintained. (IBC 9.1.3.4) (BCH 2.19.3(d))
- (iv) Padding arrangements, where used with flammable cargoes, shall be such as to minimize the creation of static electricity during admission of the drying medium. (IBC 9.1.3.5) (BCH 2.19.3(e))
- (v) Where drying agents are used as the drying medium on all air inlets to the tank, sufficient medium shall be carried for the duration of the voyage, taking into consideration the diurnal temperature range and the expected humidity. (IBC 9.1.4) (BCH 2.19.3(f))

- 10 The minimum required gas group for electrical equipment when carrying this cargo is not given in the IMO Code and cannot be ascertained from other known reliable sources. It shall therefore be ensured, when loading this cargo, that the vessel is not subjected to a hazard in excess of that for which the electrical equipment in the hazardous zones is designed.
- 11 The minimum required temperature class for electrical equipment when carrying this cargo is not given in the IMO Code and cannot be ascertained from other known reliable sources. It shall therefore be ensured, when loading this cargo, that the vessel is not subjected to a hazard in excess of that for which the electrical equipment in the hazardous zones is designed.
- 12 IBC Code paragraph 9.1 or BCH Code paragraph 2.19, as applicable, must be complied with. Attention is drawn to the following :-

Environmental control: Padding: by filling the cargo tank and associated piping systems with a liquid, gas or vapour which separates the cargo from the air, and maintaining that condition. (IBC 9.1.2.2) (BCH 2.19.2(b))

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- (i) An adequate supply of padding medium for filling and discharging the cargo tanks shall be carried or shall be manufactured on board unless a shore supply is available. In addition, sufficient padding medium shall be available on the ship to compensate for normal losses during transportation. (IBC 9.1.3.1) (BCH 2.1.9.3(a))
- (ii) The padding system on board the ship shall be able to maintain a pressure of at least 0.007 MPa gauge within the containment system at all times. In addition, the padding system shall not raise the tank pressure to more than the tank's relief-valve setting. (IBC 9.1.3.2) (BCH 2.19.3(b))
- (iii) The ullage space containing a gas blanket shall be monitored to ensure that the correct atmosphere is being maintained. (IBC 9.1.3.4) (BCH 2.19.3(d))
- (iv) Inerting or padding arrangements or both, where used with flammable cargoes, shall be such as to minimize the creation of static electricity generation during the admission of the padding medium. (IBC 9.1.3.5) (BCH 2.19.3(e))

13 IBC Code paragraph 15.12.3 or BCH Code paragraph 4.9.3, as applicable, must be complied with. Attention is drawn to the following :-

This product shall:

- (i) not be stowed adjacent to oil fuel tanks. (IBC 15.12.3.1) (BCH 4.9.3(a))
- (ii) have a separate piping system from tanks containing non-toxic products. (IBC 15.12.3.2) (BCH 4.9.3(b))
- (iii) have tank vent systems separate from tanks containing non-toxic products. (IBC 15.12.3.3) (BCH 4.9.3(c))

14 IBC Code paragraph 14.3.1 or BCH Code paragraphs 4.17 and 3.16.10, as applicable, must be complied with in order to carry this cargo, for which "Yes" is indicated in column n of IBC chapter 17 [Emergency equipment]. Attention is drawn to the following :-

Suitable respiratory and eye protection shall be provided sufficient for every person on board for emergency escape purposes, subject to the following:

- (i) Filter-type respiratory protection is unacceptable (IBC 14.3.1.1) (BCH 3.6.10(a));
- (ii) Self-contained breathing apparatus shall have at least a duration of service of 15 minutes (IBC 14.3.1.2) (BCH 3.6.10(b));
- (iii) Emergency escape respiratory protection shall not be used for fire-fighting or cargo-handling purposes and shall be marked to that effect. (IBC 14.3.1.3) (BCH 3.6.10(c))

15 IBC Code paragraph 15.20 or BCH Code paragraph 4.22, as applicable, must be complied with. Attention is drawn to the following :-

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- (i) The carriage temperature of this cargo shall be maintained below 100 degrees Centigrade to prevent the occurrence of a self-sustaining, exothermic decomposition reaction. (IBC 15.20.1) (BCH 4.22.1)
- (ii) The cargo may not be carried in independent pressure vessels permanently affixed to the vessel's deck unless: (IBC 15.20.2) (BCH 4.22.2)

.1 the tanks are sufficiently insulated from fire; and

.2 the vessel has a water deluge system for the tanks such that the cargo temperature is maintained below 100 degrees Centigrade and the temperature rise in the tanks does not exceed 1.5 degrees Centigrade per hour for a fire of 650 degrees Centigrade.

- 16 If the product to be carried to which this note refers contains flammable solvents such that the flashpoint does not exceed 60 degrees Centigrade, then special electrical systems and a flammable-vapour detector shall be provided. (IBC Ch 17, footnote a).
- 17 Although water is suitable for extinguishing open-air fires involving this product, water shall not be allowed to contaminate closed tanks containing this product because of the risk of hazardous gas generation. (IBC Ch 17, footnote b)
- 18 Dry chemical shall not be used as fire extinguishing media for this product. Alternative arrangements are to be provided for fire protection of the cargo deck area and cargo tanks. (IBC Ch 17, footnote f)
- 19 When carrying FORMIC ACID, confined spaces shall be tested for both formic acid vapours and carbon monoxide gas, a decomposition product. (IBC Ch 17, footnote g)
- 20 Temperature of carriage of Sodium Hydroxide 55% aqueous solution is not to exceed 55 degrees Centigrade. For other concentrations the maximum temperature of carriage is to be specially considered.
- 21 Temperature of carriage of Potassium Hydroxide 50% aqueous solution is not to exceed 50 degrees Centigrade. For other concentrations the maximum temperature of carriage is to be specially considered.
- 22 This cargo has a low boiling point. For low boiling point cargoes to which IBC Code paragraph 15.14 / BCH Code paragraph 4.11 does not apply, operational measures may be necessary to maintain the cargo temperature below boiling point.
- 23 This cargo may require heating. The cargo's melting point shall be indicated on the shipping document. Temporary heating arrangements may be required.
- 24 This cargo has a range of melting points, some of which exceed 55 degrees Centigrade. It is to be ensured that the grades carried on this vessel do not require to be carried at a carriage temperature that would exceed the maximum allowable carriage temperature assigned for the cargo tank.
- 25 IBC Code paragraph 15.9 or BCH Code paragraph 4.21, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Tanks and associated equipment, which have contained SODIUM CHLORATE SOLUTION (50% or less by mass) may be used for other cargoes after thorough cleaning by washing or purging. (IBC 15.9.1) (BCH 4.21.1)
- (ii) In the event of spillage of this product, all spilled liquid shall be thoroughly washed away without delay. To minimize fire risk, spillage shall not be allowed to dry out. (IBC 15.9.2) (BCH 4.21.2)

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26 IBC Code paragraph 15.11.4 or BCH Code paragraph 4.8.4, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Flanges of the loading and discharge manifold connections shall be provided with shields, which may be portable, to guard against the danger of the cargo being sprayed;
- (ii) If portable spray shields are used, they are to be properly positioned at the manifold prior to loading or discharge;
- (iii) In addition, drip trays shall also be provided to guard against leakage on to the deck. (IBC 15.11.4) (BCH 4.8.4)

27 IBC Code paragraph 15.11.6 or BCH Code paragraph 4.8.6, as applicable, must be complied with. Attention is drawn to the following :-

- (i) This cargo shall not be carried in tanks adjacent to oil fuel tanks. (IBC 15.11.6) (BCH 4.8.6)

28 IBC Code paragraph 15.19.6 or BCH Code paragraph 4.14.1, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Cargo tanks shall be fitted with a visual and audible high-level alarm which complies with IBC Code paragraphs 15.19.1 to 15.19.5 and which indicates when the liquid level in the cargo tank approaches the normal full condition. (IBC 15.19.6) (BCH 4.14.1)
- (ii) Loading operations shall be terminated at once in the event of any system essential for safe loading becoming inoperative. (IBC 15.19.3) (BCH 4.14.2(c))
- (iii) Level alarms shall be tested prior to loading. (IBC 15.19.4) (BCH 4.14.3)
- (iv) The high-level alarm system required under IBC Code paragraph 15.19.6 or BCH Code paragraph 4.14.1 shall be independent of any overflow-control system that may be fitted (see IBC Code paragraph 15.19.7 or BCH Code paragraph 4.14.2) and shall be independent of the gauging equipment required by IBC Code paragraph 13.1 or BCH Code paragraph 3.9).

29 IBC Code paragraph 15.19 or BCH Code paragraph 4.14, as applicable, must be complied with. Attention is drawn to the following :-

- (i) Cargo tanks shall be fitted with a visual and audible high-level alarm which complies with IBC Code paragraph 15.19.1 to 15.19.6 and which indicates when the liquid level in the cargo tank approaches the normal full condition. (IBC 15.19.6) (BCH 4.14.1)
- (ii) Loading operations shall be terminated at once in the event of any system essential for safe loading becoming inoperative. (IBC 15.9.3) (BCH 4.14.2(c))
- (iii) Level alarms shall be tested prior to loading. (IBC 15.19.4) (BCH 4.14.3)

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(Contd.)

(iv) The overflow-control system that is fitted in accordance with IBC Code paragraph 15.19.7 or BCH Code paragraph 4.14.2 and the high-level alarm system that is fitted in accordance with IBC Code paragraph 15.19.6 or BCH Code paragraph 4.14.2 shall be independent of each other. (IBC 15.19.5) (BCH 4.14.2(a)(iii))

(v) The cargo loading rate shall be determined using the formula given in IBC Code paragraph 15.19.8 / BCH Code paragraph 4.14.2(c).

30 This product is required to be carried in a ship type 2 cargo tank. IBC Code paragraph 16.1.2 or BCH Code paragraph 5.1.2, as applicable, must be complied with. Attention is drawn to the following:-

(i) The quantity of this cargo in any one cargo tank shall not exceed 3000 cubic metres. (IBC 16.1.2) (BCH 5.1.2)

31 IBC Code paragraph 15.13.3 or BCH Code paragraph 4.10.3, as applicable, must be complied with. Attention is drawn to the following :-

Care shall be taken to ensure that this cargo is sufficiently protected to prevent deleterious chemical change at all times during the voyage. A certificate of protection shall be provided from the manufacturer, and kept during the voyage, specifying: (IBC 15.13.3) (BCH 4.10.3)

(i) the name and amount of additive present;

(ii) whether the additive is oxygen-dependent;

(iii) date additive was put in the product and duration of effectiveness;

(iv) any temperature limitations qualifying the additive's effective lifetime; and

(v) the action to be taken if the length of voyage exceeds the effective lifetime of the additives.

32 This product might react with lead. Lead is not to be used for tanks, pipelines, valves, fittings and other equipment which may come into contact with the product or its vapours.

33 IBC Code paragraph 16.6.3 or BCH Code paragraph 4.18.3, as applicable, must be complied with. Attention is drawn to the following:

(i) Heat-sensitive products shall not be carried in deck tanks which are not insulated. (IBC 16.6.3) (BCH 4.18.3)

34 IBC Code paragraph 16.6.4 or BCH Code paragraph 4.18.4, as applicable, must be complied with. Attention is drawn to the following:

(i) In order to avoid elevated temperatures, this cargo shall not be carried in deck tanks. (IBC 16.6.3) (BCH 4.18.4)

35 The requirements listed in Chapter 17 of the IBC Code for this product are based on those isomers having a flashpoint of 60 degrees Centigrade, or less; some isomers have a flashpoint greater than 60 degrees

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- 35 Centigrade, and therefore the requirements based on flammability would not apply to such isomers. (IBC Ch (Contd.) 17, footnote d)
- 36 For this product, only certain alcohol-resistant foams are effective. (IBC Ch 17, footnote j)
- 37 IBC Code paragraph 16.2.9 or BCH Code paragraph 5.2.8, as applicable (The cargo's melting point shall be indicated in the shipping document) applies to p-XYLENE, not to other isomers of XYLENE. (IBC Ch 17, footnote h)
- 38 The requirements listed in Chapter 17 of the IBC Code for "BENZENE AND MIXTURES HAVING 10% BENZENE or more" are for mixtures containing no other components [other than benzene] with safety hazards and where the pollution category is Y or less. (IBC Ch 17, footnote i).
- 39 If the individually identified vegetable oil to which this note refers is being carried under the terms of regulation 4.1.3 of MARPOL 73/78 Annex II, please see the terms of the exemption issued by the Flag Administration for any restrictions or conditions. (see IBC Ch 17, footnote k)
- 40 IBC Code paragraph 16.2.9 or BCH Code paragraph 5.2.8, as applicable (The cargo's melting point shall be indicated in the shipping document) applies to n-DECYL ALCOHOL, not to other isomers of DECYL ALCOHOL. (IBC Ch 17, footnote e for "DECYL ALCOHOL (all isomers)")
- 41 Environmental control: Ventilation: forced or natural. (IBC 9.1.2.4) (BCH 2.19.2(d))
- 42 IBC Code paragraph 7.1.5.4 or BCH Code paragraph 2.15.5(a), as applicable, must be complied with if heating or cooling this cargo. Attention is drawn to the following:
- (i) When overheating or overcooling could result in a dangerous condition, an alarm system which monitors the cargo temperature shall be provided. (See also operational requirements in IBC Code paragraph 16.6 / BCH Code paragraph 4.18, as applicable.) (IBC 7.1.5.4) (BCH 2.15.5(a))
- 43 IBC Code paragraph 16.2.9 or BCH Code paragraph 5.2.8, as applicable, (The cargo's melting point shall be indicated in the shipping document) is applicable for this product when the melting point is equal to or greater than 0 degrees Centigrade. (IBC Ch 17, footnote l)
- 44 IBC Code paragraph 15.12.1 or BCH Code paragraph 4.9.1, as applicable, must be complied with. Attention is drawn to the following :-
- (i) Exhaust openings of tank vent systems shall be located as specified in IBC 15.12.1 (BCH 4.9.1)
- 45 Liquid mixtures which are assessed or provisionally assessed under regulation 6.3 of MARPOL Annex II as falling into Pollution Category Z or OS and which do not present safety hazards, may be carried under the appropriate entry in Chapter 18 of the IBC Code for "Noxious or Non-Noxious Liquid Substances, not otherwise specified (n.o.s.)".
- 46 The carriage requirements for this product have been amended by BLG.1/Circ.19 Annex 2. In this exceptional case the entries in Annex 2 of BLG.1 circular 19 supersede those published in the draft 2007 edition of the IBC Code as published in IMO resolution MSC.176(79).
- 47 The carriage requirements for this product are listed in BLG.1/Circ.19 Annex 1.
- 48 The full product name for this product is "BRAKE FLUID BASE MIX: POLY(2-8)ALKYLENE (C2-C3) GLYCOLS / POLYALKYLENE (C2-C10) GLYCOLS MONOALKYL (C1-C4) ETHERS AND THEIR BORATE ESTERS".
- 49 The full product name for this product is "METHACRYLIC ACID - ALKOXPOLY (ALKYLENE OXIDE) METHACRYLATE COPOLYMER, SODIUM SALT AQUEOUS SOLUTION (45% or less)".

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- 50 If the individually identified vegetable oil to which this note refers (see IBC Ch 17, footnote k) is being carried in a ship type 2 cargo tank, IBC Code paragraph 16.1.2 or BCH Code paragraph 5.1.2, as applicable, must be complied with. Attention is drawn to the following:-

- (i) The quantity of this cargo in any one cargo tank shall not exceed 3000 cubic metres. (IBC 16.1.2) (BCH 5.1.2)

- 51 For STYRENE MONOMER, the footnote to IBC Code paragraph 15.13.5 refers to MSC/Circ.489 as amended by MSC/Circ.489/Corr.1. Attention is drawn to the following:

In accordance with the provisions of paragraph 1.4 of the IBC Code, the carriage of STYRENE MONOMER under the conditions indicated in MSC/Circ.879 dated 19 November 1998, as amended by MSC/Circ.879/Corr.1 dated 4 February 1999, are considered to be equivalent to those identified in paragraph 15.13.5 of the IBC Code.

STYRENE MONOMER may be transported in a chemical tanker with cargo tanks over 3000 cubic metres fitted with an Inert Gas System, provided that the oxygen content inside those tanks is maintained between 2% and 8% and that the following operational measures are observed (MSC/Circ.879):

- (i) upon completion of loading and taking of product samples, the vapour space is to be checked to ensure that the oxygen content is within acceptable limits (2% to 8%). Although levels as low as 2% are adequate, levels of oxygen between 6% and 8% are preferred. (MSC/Circ.879 paragraph 2.1)
- (ii) during the voyage, the vapour space oxygen content is to be monitored and recorded at least twice per day, at least 8 hours apart. (MSC/Circ.879 paragraph 2.2)
- (iii) temperature and pressure readings of the cargo tanks are to be monitored and recorded at least twice per day, at least 8 hours apart. (MSC/Circ.879 paragraph 2.3)

- 52 Column h of the table in Chapter 17 of the IBC Code shows the required "Tank environmental control" for this product to be "Vent or pad (gas)".

- 53 IBC Code paragraph 15.12.2 or BCH Code paragraph 4.9.2, as applicable, must be complied with. Attention is drawn to the following :-

- (ii) Tank venting systems shall be provided with a connection for a vapour-return line to the shore installation. (IBC 15.12.2) (BCH 4.9.2)

- 54 IBC Code paragraph 15.12.4 or BCH Code paragraph 4.9.4, as applicable, must be complied with. Attention is drawn to the following :-

- (iv) Cargo tank relief-valve settings shall be a minimum of 0.02 MPa gauge. (IBC 15.12.4) (BCH 4.9.4)

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Pollution Notes

- 55 The cargo's melting point shall be indicated in the shipping document. (IBC 16.2.9) (BCH 5.2.8)
- 56 The cargo's viscosity at 20 degrees Centigrade shall be specified on the shipping document. If the cargo's viscosity exceeds 50 mPa.s at 20 degrees Centigrade, the temperature at which the cargo has a viscosity of 50 mPa.s shall be specified in the shipping document. (IBC 16.2.6) (BCH 5.2.5)
- 57 This is a Pollution Category Z cargo and is included in Chapter 18 of the IBC Code. Therefore the applicable requirements of MARPOL 73/78 Annex II are to be complied with in order to carry this cargo.
- 58 This is a Pollution Category "OS" cargo and is listed in Chapter 18 of the IBC Code. OS means the product was evaluated and found to fall outside Categories X, Y or Z. However, although the product falls outside the scope of the IBC or the BCH Code, some safety precautions may be needed for safe transportation.

not valid

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Special Notes

- 59 IBC Code paragraph 15.11.5 must be complied with. Attention is drawn to the following:

Because of the danger of evolution of hydrogen when this substance is being carried, the electrical arrangements shall comply with IBC Code paragraph 10.1.4. The certified safe type equipment shall be suitable for use in hydrogen/air mixtures. Other sources of ignition shall not be permitted in such spaces. (IBC 15.11.5)

not valid

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GENERAL NOTES

- A The Operational and General Notes included in this certificate are intended to act as a guide to the ship's Master and Owner/Manager with respect to the safe operation of the ship. All applicable operational requirements of the IBC Code must be complied with and the IBC Code must be consulted prior to loading any cargo listed in this International Certificate of Fitness.
- B A copy of the IBC Code, or national regulations incorporating the provisions of the IBC Code shall be on board the ship. (IBC 16.2.1)
- C Any cargo offered for bulk shipment shall be indicated in the shipping documents by the product name, under which it is listed in Chapter 17 or 18 of the IBC Code or the latest edition of MEPC.2/Circ, or under which it has been provisionally assessed. Where the cargo is a mixture, an analysis indicating the dangerous components contributing significantly to the total hazard of the product shall be provided, or a complete analysis if this is available. Such an analysis shall be certified by the manufacturer or by an independent expert acceptable to the Administration. (IBC 16.2.2)
- D Information shall be on board, and available to all concerned, giving the necessary data for the safe carriage of the cargo. Such information shall include a cargo stowage plan, to be kept in an accessible place, indicating all cargo on board, including for each dangerous chemical carried the information required by IBC Code paragraph 16.2.3. If sufficient information, necessary for the safe transportation of the cargo, is not available, the cargo shall be refused. (IBC 16.2.3 & 16.2.4)
- E The shipper of the cargo is responsible for providing compatibility information to the ship operator and/or master. This must be done in a timely manner before transportation of the product. The cargo shall be compatible with all materials of construction such that no damage to the integrity of the materials of construction is incurred; and no hazardous, or potentially hazardous reaction is created. (IBC 6.4)
- F Cargo distribution is subject to the suitability of the cargo tank coatings. Cargoes are not to be carried in tanks with unsuitable coatings.
- G Cargoes for which the temperature will be measured or monitored and which are required by the Code to have restricted or closed gauging shall be confined to those tanks fitted with restricted or closed type temperature measuring devices, respectively. Temperature measurement of such cargoes shall not be carried out via open ullage plugs. (IBC 7.1.5.1)
- H The ship shall have on board medical first-aid equipment, including oxygen resuscitation equipment and antidotes for cargoes to be carried, based on the guidelines developed by the International Maritime Organisation. (IBC 14.3.2).
Reference is made to the Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG), which provides advice on the treatment of casualties in accordance with the symptoms exhibited as well as equipment and antidotes that may be appropriate for treating the casualty and the relevant chapters of Part A and Part B of the STCW Code.
- I Cargoes, residues of cargoes or mixtures containing cargoes which react in a hazardous manner with other cargoes, residues or mixtures, shall be segregated from each other by means of a cofferdam, void space, cargo pump room, pump-room, empty tank, or tank containing a mutually compatible cargo; and shall be provided with separate pumping, piping and ventilation systems as required by IBC Code paragraphs 3.1.3 and 3.1.4.

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- J If cargo piping systems or cargo ventilation systems are to be separated, this may be achieved by the use of design or operational methods. Operational methods shall not be used within a cargo tank and shall consist of removing spool-pieces or valves and blanking the pipe ends; or arrangement of two spectacle flanges in series, with provisions for detecting leakage into the pipe between the two spectacle flanges. (IBC 3.1.4)
- K The maximum temperature of carriage is not to exceed 70 degrees Centigrade.
- L Tanks carrying liquids at ambient temperatures shall be so loaded as to avoid the tank becoming liquid-full during the voyage, having due regard to the highest temperature which the cargo may reach. (IBC 16.1.3)
- M Prior to chemical cargo loading, the suitability of the ship's installed cargo tanks deck fire-fighting medium is to be verified by reference to the shipping document. When the medium is not referenced as effective for the particular cargo, arrangements are to be provided for a suitable temporary system.
- N When cargo samples are kept on board they shall be stowed in a designated place complying with IBC Code paragraph 16.5. Samples which react in a hazardous manner with each other shall be adequately segregated. Samples shall not be retained on board longer than necessary. (IBC 16.5)
- O Personnel shall not enter cargo tanks, void spaces around such tanks, cargo-handling spaces or other enclosed spaces unless the compartment is free of toxic vapours and not deficient in oxygen, or unless the personnel are wearing breathing apparatus and have with them other necessary equipment. The entire operation is to be under the close supervision of a responsible officer. Personnel shall not enter such spaces when the only hazard is of a purely flammable nature, except under the close supervision of a responsible officer. (IBC 16.4.2 and 16.4.3)
- P During handling and carriage of cargoes producing flammable and/or toxic vapours, or when ballasting after the discharge of such cargo, or when loading or unloading cargo, cargo-tank lids shall always be kept closed. With any hazardous cargo, cargo-tank lids, ullage and sighting ports and tank washing access covers shall be open only when necessary. (IBC 16.4.1)
- Q All personnel shall be adequately trained in the use of protective equipment and have basic training in the procedure appropriate to their duties necessary under emergency conditions. Personnel involved in cargo operations shall be adequately trained in handling procedures. Officers shall be trained in emergency procedures and first aid. (IBC 16.3)
- R Heating or cooling media shall be of a type approved for use with the specific cargo. (IBC 7.1.2)
- S Enclosed spaces which contain cargo-handling equipment and similar spaces in which work is performed on the cargo shall be ventilated prior to entry. A warning notice requiring the use of the fixed ventilating system shall be placed outside the space. (IBC 12.1)
- T The ship shall have on board suitable protective equipment for the protection of crew members engaged in loading and discharging operations. The protective equipment shall cover all skin so that no part of the body is unprotected. Work clothes and protective equipment shall be kept in lockers outside the accommodation spaces and used by crew members involved in any operation which may entail danger to personnel. (IBC 14.1)
- U A stretcher which is suitable for hoisting an injured person up from spaces such as a pump-room shall be placed in a readily accessible location. (IBC 14.3.3)
- V When cargoes on the list are being transferred using the ship's cargo hoses the working pressure is to be restricted to 20% of the bursting pressure of the hose. Hoses must be compatible with the cargo being transferred and suitable for the cargo temperature. (IBC 5.7)
- W Fruit juices, peel oil etc. have been included although they may require refrigeration and stainless steel tanks for cargo quality reasons.

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X IBC Code paragraph 13.2 must be complied with. Attention is drawn to the following :-

- (i) At least two sets of instruments shall be provided to detect toxic and flammable vapours given off by the cargoes carried. If the instruments provided cannot detect both toxic and flammable concentrations, separate instruments shall be provided for each. (IBC 13.2.1)
- (ii) Those cargoes on the list for which suitable vapour detection equipment is not commercially available may be carried provided that additional breathing apparatus, as detailed in IBC Code paragraph 14.2.4, and additional to that required by IBC Code paragraph 14.2.1 is available on board and the conditions for tank entry in IBC Code paragraph 16.4.2.2 are strictly observed. (IBC 13.2.3)

Y Cargoes which evolve highly toxic imperceptible vapours shall not be transported unless perceptible additives are introduced into the cargo. (IBC 16.2.5)

Z When products required to comply with IBC Code paragraphs 15.12, 15.12.1 or 15.12.3 are to be heated or cooled, the heating or cooling medium is to be sampled to check for the presence of cargo prior to recirculation to other services of the ship or into the machinery space. The coil return shall be tested at the commencement of heating or cooling a toxic product and on the first occasion that the coil is used subsequent to having carried an unheated or uncooled toxic cargo. (IBC 7.1.6.3)

AA Ships carrying toxic products which are subject to the requirements of IBC Code paragraphs 15.12, 15.12.1 or 15.12.3 shall have on board sufficient but not less than three complete sets of safety equipment complying with IBC Code paragraph 14.2. Such equipment shall be in addition to that required by SOLAS regulation II-2/10.10. The compressed air breathing apparatus shall be provided with back up capacity in accordance with IBC Code paragraph 14.2.3. The safety equipment shall be inspected at least once a month by a responsible officer, and inspected and tested by an expert at least once a year. All sets of safety equipment shall be kept in suitable, clearly marked, readily accessible place. (IBC 14.2)

AB This ship was constructed before 1 January 1994; Chapter 8 of the 1986 / 1992 Edition of the IBC Code is applicable to this ship. (IBC 8.1.2, 2007 Edition):

Under conditions in which, during loading, a cargo vapour (which may be saturated) is discharged through the venting system, operating procedures are to be such that over-pressurisation of the cargo tank does not occur and in no case is the pressure differential between the cargo tank vapour space and the atmosphere to exceed 0.2 bar, or, for independent tanks, the maximum working pressure of the tank. (IBC 8.1.3, 1986 / 1992 Edition)

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STRENGTH NOTES

The cargo tanks have been approved for 100% filling with the following maximum cargo specific gravities:-

Cargo Tanks 1 - 6 (P + S) : SG up to 1.2

Slop Tanks (P+S): SG up to 1.2

The densities of some cargoes on the list are in excess of these values and this has not been considered when assigning tank groups. Reference should be made to the Society's Classification Department before loading these cargoes with respect to the possible implications of slack tanks on sloshing loads and stability aspects.

In no case should cargoes having a specific gravity in excess of these values have a depth of filling exceeding:

Maximum permissible depth of filling as a percentage = of tank depth	<div>Max Cargo SG for which scantlings are approved</div> <div>-----x100</div> <div>actual cargo SG</div>
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

It should be noted, however, that the maximum permissible cargo specific gravity may be limited by stability aspects , and the provisions of paragraph (b) in the Stability Notes are to be complied with.

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STABILITY NOTES

(a) The booklet "Damage Cases" ref. 105114 : C580, 5/7 March 1991 approved by the Danish Maritime Authority on 12/3/91 as a

supplement to the Intact Stability Booklet approved separately by the Danish Maritime Authority on 8 March 1991 has been endorsed as follows:

The arrangement of subdivision and location of cargo tanks is in accordance with the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code), as a Type 2 ship of less than 150m in length.

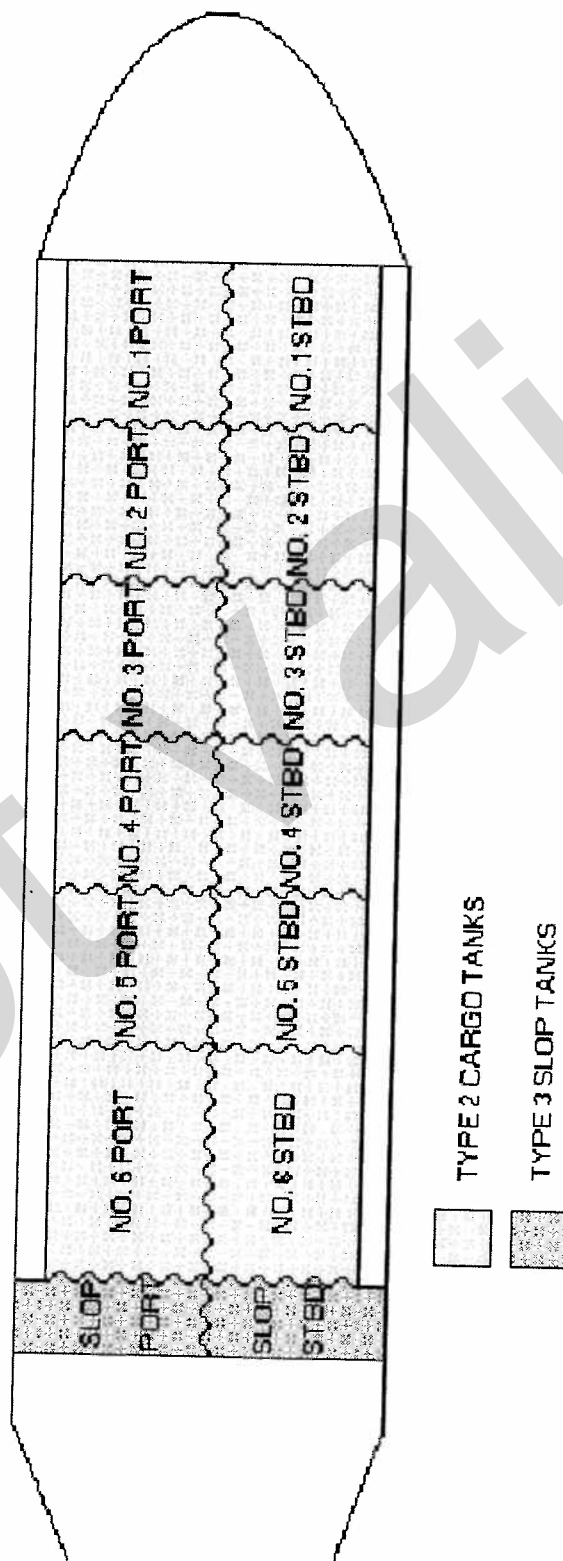
The Damage Stability requirements of the IBC Code are complied with for the actual loading conditions herein. (Damage conditions no. 1-50, shown on pages 1-180 incl.)

The subdivision and Damage Stability requirements of Marpol 73/78 Annex 1, Reg. 25 are complied with for the actual loading conditions and damage cases herein.

- (b) Where it is required to load the ship other than in accordance with the loading conditions provided in the approved loading manual then the necessary calculations to justify the proposed loading condition should be communicated to the certifying Administration who may authorise in writing the adoption of the proposed loading condition.
- (c) The range of specific gravity of cargoes for which loading conditions shown in the manual have been examined is 0.8 to 2.0.

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TANK PLAN



5. that in accordance with **1.4/2.8.2*** the provisions of the Code are modified in respect of the ship in the following manner:
N/A

6. that the ship must be loaded in accordance with the loading conditions:
- .1 provided in the approved loading manual, **stamped and signed and dated* 12 March 1991** by a responsible officer of the Administration, or of an organisation recognised by the Administration.
 - .2 in accordance with the loading limitations appended to this certificate.
See also the Stability Notes on page 39.

This certificate is valid until **12 March 2011**

subject to surveys in accordance with section 1.5 of the Code.

Completion date of the survey on which this certificate is based

13 March 2006

Issued at **London**

on **28 December 2006**

The undersigned declares that
Lloyd's Register EMEA is duly authorised by
the said Government to issue this certificate.



J. D. Morley

Surveyor to Lloyd's Register EMEA

A member of the Lloyd's Register Group

*Delete as appropriate

Endorsement for annual and intermediate surveys

This is to certify that, at a survey required by 1.5.2 of the Code, the ship was found to comply with the relevant provisions of the Code

Annual survey

Signed:

Place of

Date

Annual/intermediate* survey

Signed:

Place of

Date

Annual/intermediate* survey

Signed:

Place of

Date

Annual survey

Signed:

Place of

Date

* Delete as appropriate

Annual/Intermediate survey in accordance with 1.5.6.8.3

This is to certify that at an annual / intermediate survey held in accordance with 1.5.6.8.3 of the Code, the ship was found to comply with the relevant provisions of the Code

Annual/intermediate* survey

Signed:

Place of

Date

Endorsement to extend the certificate if valid for less than 5 years where 1.5.6.3 applies

The ship complies with the relevant provisions of the Code, and this certificate should, in accordance with 1.5.6.3 of the Code, be accepted as valid until

Signed:

Place of

Date

Endorsement where the renewal survey has been completed and 1.5.6.4 applies

The ship complies with the relevant provisions of the Code, and this certificate should, in accordance with 1.5.6.4 of the Code, be accepted as valid until

Signed:

Place of

Date

* Delete as appropriate

Endorsement to extend the validity of the certificate until reaching the port of survey or for a period of grace where 1.5.6.5 or 1.5.6.6 applies

This certificate should, in accordance with **1.5.6.5 / 1.5*** of the Code, be accepted as valid

Signed:

Place of

Date

Endorsement for advancement of anniversary date where 1.5.6.8 applies

In accordance with 1.5.6.8 of the Code, the new anniversary

Signed:

Place of

Date

In accordance with 1.5.6.8 of the Code, the new anniversary

Signed:

Place of

Date

* Delete as appropriate