STATUTORY INSTRUMENTS

1990 No. 2604

MARINE POLLUTION

The Merchant Shipping (Control of Pollution by Noxious Liquid Substances in Bulk) (Amendment) Regulations 1990

Made - - - -

19th December 1990

Coming into force

1st January 1991

The Secretary of State for Transport, in exercise of the powers conferred on him by article 3 of the Merchant Shipping (Prevention and Control of Pollution) Order 1987(a) and of all other powers enabling him that behalf, hereby makes the following Regulations:

- 1. These Regulations may be cited as the Merchant Shipping (Control of Pollution by Noxious Liquid Substances in Bulk) (Amendment) Regulations 1990 and shall come into force on 1st January 1991.
- 2. The Merchant Shipping (Control of Pollution by Noxious Liquid Substances in Bulk) Regulations 1987(b) are hereby amended as follows:
 - (i) in regulation 1(2)—
 - (a) in the definition "BCH Code" replace "(1986 Edition)" by "(1990 Edition)";
 - (b) in the definition "BCH Code Regulations" after "the Merchant Shipping (BCH Code) Regulations 1987(a)" add "as amended"(c);
 - (c) in the definition "class-approved" in sub-paragraph (a) delete the words "Table 3 of Merchant Shipping Notice No. M.1270" and replace by "Schedule 4 hereto";
 - (d) in the definition "IBC Code" replace "(1986 Edition)" by "(1990 Edition)";
 - (e) in the definition "IBC Code Regulations" after "the Merchant Shipping (IBC Code) Regulations 1987(b)" add "as amended"(d);
 - (f) in the definition "MARPOL 73/78" after "as amended (a)" add "and as further amended by amendments adopted on 17th March 1989 by the Marine Environment Protection Committee of the International Maritime Organization";
 - (ii) in regulation 30 after "the Merchant Shipping (Prevention of Pollution by Noxious Liquid Substances in Bulk) Regulations 1987" add "as amended";
 - (iii) replace Schedule 1 by the following-

"SCHEDULE 1 Regulations 1(2), 2 to 13, 16, 17 and 28 LIST OF NOXIOUS LIQUID SUBSTANCES CARRIED IN BULK

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	et) IV Within special areas
Acetaldehyde	1089	C ·		
Acetic acid	2789*	D		
Acetic anhydride	1715	D		
Acetone cyanohydrin	1541	Α	0.1	0.05
Acrylamide solution (50% or less)	2074	D		
Acrylic acid	2218	D		
Acrylonitrile	1093	В		
Adiponitrile	2205	D		0.05
Alcohol (C12—C15) poly(1-3) ethoxylates		A	0.1	0.05
Alcohol (C12—C15) poly(3-11) ethoxylates		A	0.1	0.05
Alcohol (C6-C17)(secondary) poly(3-6) ethoxylates		A	0.1	0.03
Alcohol (C6-C17)(secondary) poly(7-12) ethoxylates		B C		
Alkyl acrylate-vinyl pyridine copolymer in toluene		C		
Alkyl (C9-C17) benzenes		D		
Alkyl benzene sulphonic	2584,	Ċ		
acid	2586			
Alkyl benzene sulphonic		С		
acid, sodium salt solution				
Allyl alcohol	1098	В		
Allyl chloride	1100	В		
Aluminium chloride (30% or less)/Hydrochloric acid		D		
(20% or less) solution		D		
Aluminium sulphate solution	3055	D D		
2-(2-Aminoethoxy) ethanol Aminoethyl ethanolamine	3033	D D		
N-Aminoethylpiperazine	2815	D		
2-Amino-2-methyl-1-propanol (90% or less)	2013	D		
Ammonia aqueous (28% or less)	2672**	С		
Ammonium nitrate solution (93% or less)		D		
Ammonium sulphate solution		D		
Ammonium sulphide solution (45% or less)	2683	В		
Ammonium thiocyanate (25% or less)/Ammonium		С		
thiosulphate (20% or less) solution				
Ammonium thiosulphate solution (60% or less)		С		
n-Amyl acetate	1104	C		
sec-Amyl acetate	1104	C		
Amyl acetate, commercial	1104	C		
n-Amyl alcohol	1105	D		
sec-Amyl alcohol	1105	D		

^{*}UN number 2789 refers to more than 80% acid by mass **UN number refers to 10-35%

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Amyl alcohol, primary	1105	D		
Aniline	1547	C		
Animal and fish oils, n.o.s. including: Cod liver oil		D		
Sperm oil Aviation alkylates (C8		С		
paraffins and iso-paraffins BPT 95—120 C)		C		
Benzene and mixtures having 10% benzene or more	1114*	С		
Benzene sulphonyl chloride	2225	D		
Benzyl aleehel		C		
Benzyl alcohol Benzyl chloride	1738	C B		
Brake fluid base mix:	1736	D		
(Poly(2-8) alkylene(C2-C3) glycols/Polyalkylene(C2-C10) glycols monoalkyl(C1-C4) ethers and their borate esters		_		
Butene oligomer		В		
n-Butyl acetate	1123	C		
sec-Butyl acetate	1123	D		
n-Butyl acrylate	2348	В		
Butylamine (all isomers)	2700	C	0.1	0.05
Butylbenzenes (all isomers) Butyl benzyl phthalate	2709	A A	0.1 0.1	0.05 0.05
n-Butyl butyrate		Ĉ	0.1	0.03
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture		D		
Butylene glycol	2022	D		
1,2-Butylene oxide n-Butyl ether	3022	C C		
Butyl lactate	1149	D		
Butyl methacrylate		D		
n-Butyraldehyde	1129	В		
Butyric acid	2820	D		
gamma-Butyrolactone		D		
Calcium alkyl salicylate		č		
Calcium hydroxide slurry Calcium hypochlorite solution (15% or less)		D C		
Calcium hypochlorite solution (more than 15%)		В		
Calcium naphthenate in mineral oil	****	A	0.1	0.05
Camphor oil epsilon-Caprolactam (molten or aqueous solutions)	1130	B D		
Carbolic oil		A	0.1	0.05
Carbon disulphide	1131	В		
Carbon tetrachloride Cashew nut shell oil (untreated)	1846	B D		
Chlorinated paraffins (C10-C13)		A	0.1	0.05

^{*} UN number 1114 applies to Benzene

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weig III Outside special areas	ht) IV Within special areas
Chloroacetic acid (80% or	1750	C		
less)	1750	C		
Chlorobenzene	1134	В		
Chloroform	1888	В		
Chlorohydrins (crude)		D		
o-Chloronitrobenzene	1578	В		
2- or 3-Chloropropionic acid		С		
Chlorosulphonic acid	1754	С		
m-Chlorotoluene	2238	В		
o-Chlorotoluene	2238	A	0.1	0.05
p-Chlorotoluene	2238	В	•••	
Chlorotoluenes (mixed isomers)	2238	A	0.1	0.05
Choline chloride solutions		D		
Citric acid		D		
Coal tar		Α	0.1	0.05
Coal tar naphtha solvent		В		
Coal tar pitch (molten)		D		0.05
Cobalt naphthenate in		A	0.1	0.05
solvent naphtha		C		
Coconut oil fatty acid Coconut oil fatty acid		C D		
methyl ester		D		
Creosote (coal tar)		Α	0.1	0.05
Creosote (wood)		Ä	0.1	0.05
Cresols (all isomers)	2076	A	0.1	0.05
Cresylic acid, sodium salt solution		Α	0.1	0.05
Crotonaldehyde	1143	В		
Cycloheptane	2241	C		
Cyclohexane	1145	С		
Cyclohexanol		<u>C</u>		
Cyclohexanone	1915	D		
Cyclohexyl acetate	2257	В		
Cyclohexylamine	2357	C B		
1,3-Cyclopentadiene dimer (molten)		D		
Cyclopentane	1146	С		
Cyclopentene	1140	B		
p-Cymene	2046	Č		
Decahydronaphthalene	1147	D		
Decanoic acid		C		
Decene		В		
Decyl acrylate		Α	0.1	0.05
Decyl alcohol (all isomers)		В		
Decylbenzene	1110	D		
Diacetone alcohol	1148	D		
Dialkyl (C7-C13) phthalates		D C		
Dibutylamine Dibutyl phthalate		C A	0.1	0.05
Dichlorobenzenes (all	1592	B	V.1	0.03
isomers)	1.774	J.		
l,l-Dichloroethane	2362	В		
Dichloroethyl ether	1916	В		
1,6-Dichlorohexane	20	В		
2,2'-Dichloroisopropyl	2490	Ċ		
ether				
Dichloromethane	1593	D		

Substance	UN Number I	Pollution Category for Operation discharge II	Residual Concentration (percent by wei III Outside special areas	ght) IV Within special areas
2,4-Dichlorophenol	2021	A	0.1	0.05
2,4-Dichlorophenoxyacetic acid, diethanolamine salt		A	0.1	0.05
solution 2,4-Dichlorophenoxyacetic acid, dimethylamine salt		A	0.1	0.05
solution (70% or less) 2,4-Dichlorophenoxyacetic acid, triisopropanolamine		A	0.1	0.05
salt solution 1,1-Dichloropropane		В		
1,2-Dichloropropane	1279	В		
1,3-Dichloropropane		В		
1,3-Dichloropropene Dichloropropene/Dichloropro	2047	B B		
pane mixtures 2,2-Dichloropropionic acid		D		
Diethylamine	1154	C		
Diethylaminoethanol	2686	č		
Diethylbenzene	2049	C		
Diethylene glycol butyl ether acetate		D		
Diethylene glycol dibutyl ether		D		
Diethylene glycol ethyl ether acetate		D		
Diethylene glycol methyl ether		С		
Diethylene glycol methyl ether acetate		D		
Diethylenetriamine	2079	D		
Di-(2-ethylhexyl) adipate	1000	D		
Di-(2-ethylhexyl) phosphoric acid	1902	С		
Diethyl phthalate		С		
Diethyl sulphate	1594	В		
Diglycidyl ether of bisphenol A		В		
Diglycidyl ether of bisphenol F		В		
Di-n-hexyl adipate		В		
1,4-Dihydro-9,10-dihydroxy		D		
anthracene, disodium salt solution				
Diisobutylamine	2361	C		
Diisobutylene	2050	В		
Diisobutyl ketone	1157	D		
Diisobutyl phthalate		В		
Diisodecyl phthalate Diisononyl adipate		B D		
Disopropanolamine		C		
Diisopropylamine	1158	č		
Diisopropylbenzene (all isomers)		Α	0.1	0.05
Diisopropyl naphthalene		D		
N,N-Dimethylacetamide solution (40% or less)		D		

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weig III Outside special areas	ht) IV Within special areas
Dimethyl adipate	-	В	· -	_
Dimethylamine solution (45%	1160	C		
or less) Dimethylamine solution	1160	С		
(greater than 45% but not	1100	C		
greater than 55%)				
Dimethylamine solution	1160	C		
(greater than 55% but not				
greater than 65%)	2274	C		
N,N-Dimethylcyclohexylamine Dimethylethanolamine	2264 2051	C D		
Dimethylformamide	2265	D		
Dimethyl glutarate	2203	Č		
Dimethyl octanoic acid		C		
Dimethyl phthalate		<u>c</u>		
212-Dimethylpropane-1,3-dio		D		
Dimethyl succinate		С		
Dinitrotoluene (molten)	1600	B		
Dinonyl phthalate		D		
1,4-Dioxane	1165	D		
Dipentene	2052	C		
Diphenyl Diphenyl ather		A	0.1	0.05
Diphenyl/Diphenyl ether mixtures		Α	0.1	0.05
Diphenyl ether		Α	0.1	0.05
Diphenyl ether/Diphenyl		A	0.1	0.05
phenyl ether mixture				
Diphenylmethane	2489	В		
diisocyanate		В		
Diphenylol propane-epichlorohydrin		D		
resins				
Di-n-propylamine	2383	C		
Dipropylene glycol methyl		D		
ether		D		
Ditridecyl phthalate Diundecyl phthalate		D D		
Dodecene (all isomers)		В		
Dodecenyl succinic acid,		D		
dipotassium salt solution				
Dodecyl alcohol		В		
Dodecyl diphenyl ether		В		
disulphonate solution Dodecyl phenol		A	0.1	0.05
Drilling brines, containing		A	0.1	0.05
Zinc salts				
Epichlorohydrin	2023	C		
Ethanolamine	2491	D		
2-Ethoxyethanol	1171	D C		
2-Ethoxyethyl acetate Ethyl acetate	1172 1173	D		
Ethyl acetoacetate	11/3	D		
Ethyl acrylate	1917	Ā	0.1	0.05
Ethylamine	1036	C		
Ethylamine solutions (72%	2270	C		
or less)				

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Ethyl amyl ketone	2271	С		
Ethylbenzene	1175	C		
N-Ethylbutylamine		C		
Ethyl butyrate	1180	C		
Ethylcyclohexane		C		
N-Ethylcyclohexylamine		D		
Ethylene chlorohydrin	1135	C		
Ethylene cyanohydrin	1604	D		
Ethylenediamine Ethylenediamine tetraacetic	1604	C D		
acid, tetrasodium salt		D		
solution				
Ethylene dibromide	1605	В		
Ethylene dichloride	1184	В		
Ethylene glycol		Ď		
Ethylene glycol acetate		D		
Ethylene glycol butyl ether		C		
acetate				
Ethylene glycol diacetate		C		
Ethylene glycol isopropyl		D		
ether		ъ		
Ethylene glycol methyl butyl ether		D		
Ethylene glycol methyl	1188	D		
ether	1100	D		
Ethylene glycol methyl	1189	D		
ether acetate		_		
Ethylene glycol phenyl		D		
ether				
Ethylene glycol phenyl		D		
ether/Diethylene glycol				
phenyl ether mixture	2002			
Ethylene oxide/Propylene oxide mixture with an	2983	D		
Ethylene oxide content of				
not more than 30% in weight				
2-Ethylhexanoic acid		D		
2-Ethylhexyl acrylate		B		
2-Ethylhexylamine	2276	В		
Ethylidene norbornene		В		
Ethyl methacrylate	2277	D		
o-Ethylphenol		A	0.1	0.05
Ethyl propionate	1195	D		
2-Ethyl-3-propylacrolein		В		
Ethyltoluene	2502	В		
Ferric chloride solutions Ferric hydroxyethyl	2582	C D		
ethylenediamine triacetic		D		
acid, trisodium salt solution				
Ferric nitrate/Nitric acid		C		
solution				
Formaldehyde solutions (45%	1198	C		
or less)	2209	_		
Formamide	1886	D		
Formic acid	1779	D		
Fumaric adduct of rosin, water dispersion		В		
water dispersion				

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Furfural	1199	C		
Furfuryl alcohol	2874	Č		
Glutaraldehyde solutions		D		
(50% or less) Glycidyl ester of C10		В		
trialkylacetic acid		-		
Glyoxal solution (40% or less)		. D		
Heptane (all isomers)	1206	C		
n-Heptanoic acid		D		
Heptanol (all isomers) Heptene (all isomers)		C C		
Heptyl acetate		В		
Hexamethylenediamine		D		
adipate (50% in water)		_		
Hexamethylenediamine solution	1783	С		
Hexamethyleneimine	2493	C		
Hexamethylenetetramine solutions		D		
Hexane (all isomers)	1208	С		
Hexanoic acid		D		
Hexanol	2282	D		
Hexene (all isomers)		C		
Hexyl acetate	1233	В		
Hydrochloric acid	1789	D C		
Hydrogen peroxide solutions (over 8% but not over 60%)	2014, 2984	C		
Hydrogen peroxide solutions	2015	С		
(over 60% but not over 70%)		_		
2-Hydroxyethyl acrylate		В		
N-(Hydroxyethyl)		D		
ethylenediamine triacetic				
acid, trisodium salt				
solution Isoamyl acetate	1104	С		
Isoamyl alcohol	1105	Ď		
Isobutyl acetate	1213	Č		
Isobutyl acrylate	2527	В		
Isobutyl formate	2393	D		
Isobutyraldehyde	2045	C		
Isophorone	2222	D		
Isophoronediamine	2289 2290	D B		
Isophorone diisocyanate Isoprene	1218	C		
Isopropanolamine	1216	č		
Isopropylamine	1221	Č		
Isopropylbenzene	1918	В		
Isopropylcyclohexane		C		
Isopropyl ether	1159	D		
Isovaleraldehyde	2058	C		
Lactic acid		D B		
Lactonitrile solution (80% or less)		D		
Latex (ammonia inhibited)		D		
Lauric acid		В		
Maleic anhydride	2215	D		

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by wei III Outside special areas	ght) IV Within special areas
Mercaptobenzothiazol,		В	· · · · · · · · · · · · · · · · · · ·	
sodium salt solution				
Mesityl oxide Metam sodium solution	1229	D	0.1	0.05
Methacrylic acid	2531	A D	0.1	0.05
Methacrylic resin in	2331	В		
1,2-Dichloroethane solution		_		
Methacrylonitrile	3079	В		
3-Methoxybutyl acetate	2708	D		
Methyl acetoacetate	1010	D		
Methylamina solutions (429/	1919	B C		
Methylamine solutions (42% or less)	1235	C		
Methylamyl acetate	1233	C		
Methylamyl alcohol	2053	C		
Methyl amyl ketone Methyl butenol	1110	C		
Methyl tert-butyl ether	2398	D		
Methyl butyl ketone	2396	D		
Methyl butynol		D		
Methyl butyrate	1237	C		
Methylcyclohexane	2296	C		
Methylcyclopentadiene dimer		В		
2-Methyl-6-ethyl aniline	2200	C		
2-Methyl-5-ethyl pyridine Methyl formate	2300 1243	B D		
Methyl heptyl ketone	1243	В		
Methyl isobutyl ketone	1245	D		
Methyl methacrylate	1247	D		
Methylnaphthalene		A	0.1	0.05
2-Methyl-1-pentene	2288	C		
Methyl propyl ketone 2-Methylpyridine	2313	D B		
4-Methylpyridine	2313	В		
N-Methyl-2-pyrrolidone	2313	В		
Methyl salicylate		В		
alpha-Methylstyrene	2303	Α	0.1	0.05
Morpholine	2054	D		
Motor fuel anti-knock	1649	A	0.1	0.05
compounds Naphthalene (molten)	2304	Α	0.1	0.05
Naphthalene sulphonic	2304	D	0.1	0.05
acid-formaldehyde				
copolymer, sodium salt				
solution				
Naphthenic acids		A	0.1	0.05
Neodecanoic acid Nitrating acid (mixture of	1796	C C		
sulphuric and nitric acids)	1/70	C		
Nitric acid (less than 70%)	2031	C		
Nitric acid (70% and over)	2031, 2032	Č		
Nitrilotriacetic acid, trisodium salt solution		D		
Nitrobenzene	1662	В		
o-Nitrophenol (molten)	1663	В		
1- or 2-Nitropropane	2608	D		

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Nitropropane	. =	D		-
(60%)/Nitroethane (40%)				
mixture				
o- or p-Nitrotoluenes	1664	С		
Nonane (all isomers)	1920	C		
Nonanoic acid (all isomers)		D		
Nonene		В		
Nonyl alcohol (all isomers)		C		
Nonyl methacrylate monomer		D	0.1	0.05
Nonylphenol		A	0.1	0.05
Nonyl phenol poly(4-12) ethoxylates	1262	B C		
Octane (all isomers) Octanoic acid (all isomers)	1202	D		
Octanol (all isomers)		C		
Octene (all isomers)		В		
n-Octyl acetate		D		
Octyl aldehydes		B		
Octyl nitrates (all		Ā	0.1	0.05
isomers)				
Olefin mixtures (C5-C7)		C		
Olefin mixtures (C5-C15)		В		
alpha-Olefins (C6-C18)		В		
mixtures				
Oleic acid		D		
Oleum	1831	С		
Palm nut oil fatty acid		C		
Palm oil fatty acid methyl		D		
ester		_		
Palm stearin	1264	D		
Paraldehyde	1264	C		
Pentachloroethane 1,3-Pentadiene	1669	B C		
Pentaethylenehexamine		D		
Pentane (all isomers)	1265	C		
Pentanoic acid	1203	D		
Pentene (all isomers)		Č		
Perchloroethylene	1897	B		
Phenol	2312	B		
1-Phenyl-1-xylyl ethane		Ċ		
Phosphoric acid	1805	D		
Phosphorus, yellow or white	1381,	Ā	0.01	0.005
	2447			
Phthalic anhydride (molten)	2214	C		
Pinene	2368	В		
Polyalkylene glycol butyl		D		
ether		_		
Polyethylene polyamines	2734	С		
D16 111	2735			
Polyferric sulphate		С		
solution	2207	D		
Polymethylene polyphenyl	2207	D		
isocyanate		D		
Polypropylene glycol	1014	D		
Potassium hydroxide solution	1814	С		
n-Propanolamine		С		
11-1 I UDANUIANINE		C		

Substance	UN Number I	Pollution Category for operational discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Propionaldehyde	1275	D		-
Propionic acid	1848	D		
Propionic anhydride	2496	C		
Propionitrile	2404	C		
n-Propyl acetate	1276	D		
n-Propylamine	1277	C		
n-Propylbenzene	2364	C		
n-Propyl chloride		В		
Propylene dimer		C		
Propylene glycol ethyl ether		D		
Propylene glycol methyl ether		D		
Propylene glycol monoalkyl ether		D		
Propylene oxide	1280	D		
Propylene tetramer	2850	В		
Propylene trimer	2057	В		
Pyridine	1282	D		
Rosin		В		
Rosin soap		В		
(disproportionated)				
solution Silicon tetrachloride		D		
Sodium aluminate solution		D C		
Sodium borohydride (15% or		C		
less)/Sodium hydroxide		Č		
solution				
Sodium carbonate solution		D		
Sodium dichromate solution		C		
(70% or less)				
Sodium hydrogen sulphite	2693	D		
solution (35% or less) Sodium		T)		
hydrosulphide/Ammonium		В		
sulphide solution				
Sodium hydrosulphide	2949	В		
solution (45% or less)	2747	Б		
Sodium hydroxide solution	1824	D		
Sodium hypochlorite	1791	$\overline{\mathbf{C}}$		
solution (15% or less)				
Sodium nitrite solution		В		
Sodium silicate solution		D		
Sodium sulphide solution		B		
Sodium sulphite solution		C		
Sodium thiocyanate solution (56% or less)		В		
Styrene monomer	2055	В		
Sulpholane	2033	D		
Sulphuric acid	1830	Č		
Sulphuric acid, spent	1832	č		
Tall oil (crude and		В		
distilled)				
Tall oil fatty acid (resin		C		
acids less than 20%)		.		
Tall oil soap		В		
(disproportionated) solution	_			

Substance	UN Number I	Pollution Category for Operation discharge II	Residual Concentration (percent by weigh III Outside special areas	t) IV Within special areas
Tallow		D		
Tallow fatty acid		D		
Tetrachloroethane	1702	В		
Tetraethylene pentamine	2320	D		
Tetrahydrofuran	2056	D		
Tetrahydronaphthalene		C		
1,2,3,5-Tetramethylbenzene	1020	C		
Titanium tetrachloride	1838	D		
Toluene Toluenediamine	1294	C C		
Toluene diisocyanate	1709 2078	Č		
o-Toluidine	1708	C		
Tributyl phosphate	1706	В		
1,2,4-Trichlorobenzene	2321	В		
1,1,1-Trichloroethane	2831	В		
1,1,2-Trichloroethane	2051	В		
Trichloroethylene	1710	В		
1,2,3-Trichloropropane		В		
1,1,2-Trichloro-1,2,2-tri-		С		
fluoroethane				
Tricresyl phosphate		A	0.1	0.05
(containing less than 1%				
ortho-isomer)				
Tricresyl phosphate	2574*	Α	0.1	0.05
(containing 1% or more				
ortho-isomer)		_		
Triethanolamine	1207	D		
Triethylamine Triethylbenzene	1296	C	0.1	0.05
Triethylene glycol ethyl		A D	0.1	0.03
ether		D		
Triethylene glycol methyl		D		
ether		D		
Triethylenetetramine	2259	D		
Trimethylacetic acid		D		
Trimethylamine		C		
Trimethyl benzenes (all		В		
isomers)				
Trimethylhexamethylenediamine	2327	D		
(2,2,4- and 2,4,4-				
isomers)		_		
Trimethylhexamethylene	2328	В		
diisocyanate (2,2,4- and				
2,4,4- isomers)		Ъ		
Trimethylol propane polyethoxylate		D		
2,2,4-Trimethyl-1,3-pentane		С		
diol-1-isobutyrate		C		
Tripropylene glycol methyl		D		
ether		_		
Trixylyl phosphate		Α	0.1	0.05
Turpentine	1299	В		
Undecanoic acid	-	C		
1-Undecene		В		
Undecyl alcohol		В		

^{*} UN number 2574 applies to Tricresyl phosphate containing more than 3% ortho-isomer.

Substance	UN Number I	Pollution Category for Operation discharge II	Residual Concentration (percent by weight III Outside special areas) IV Within special areas
Urea/Ammonium mono- and		D		
di-hydrogen				
phosphate/Potassium chloride solution				
Urea/Ammonium nitrate		D		
solution		_		
Urea/Ammonium nitrate		C		
solution (containing aqua				
Ammonia)		_		
Urea/Ammonium phosphate solution		D		
n-Valeraldehyde	2058	D		
Vegetable oil, n.o.s.,		D		
including:				
Castor oil				
Coconut oil Corn oil				
Cottonseed oil				
Groundnut oil				
Linseed oil				
Olive oil				
Palm nut oil				
Palm oil Rape seed oil				
Rice bran oil				
Safflower oil				
Sesame oil				
Soya bean oil				
Sunflower oil Tung oil				
Vinyl acetate	1301	С		
Vinyl ethyl ether	1302	č		
Vinylidene chloride	1303	В		
Vinyl neodecanoate		В		
Vinyltoluene	2618	A	0.1	0.05
White spirit, low (15-20%) aromatic	1300	В		
Xylenes	1307	C		
Xylenol	2261	В		

(iv) replace Schedule 2 by the following-

"SCHEDULE 2

Regulations 1(2) amd 15

LIST OF NON-POLLUTING LIQUID SUBSTANCES CARRIED IN BULK

Substance	UN Number	
Acetone	1090	
Acetonitrile	1648	
Alcoholic beverages, n.o.s.		
Alcohols (C13 and above)		
Aminoethyldiethanolamine/Amino		
ethylethanolamine solution		
2-Amino-2-hydroxymethyl-1,3		
propanediol solution (40% or		
less) tert-Amyl alcohol	1105	
Apple juice	1105	
Behenyl alcohol		
Benzene tricarboxylic acid,		
trioctyl ester		
n-Butyl alcohol	1120	
sec-Butyl alcohol	1120	
tert-Butyl alcohol	1120	
Butyl stearate	1120	
Calcium carbonate slurry		
Calcium nitrate/Magnesium		
nitrate/Potassium chloride		
solution		
Cetyl/Eicosyl methacrylate		
mixture		
Cetyl/Stearyl alcohol		
Chlorinated paraffins		
(C14-C17) (with 52% chlorine)		
Clay slurry		
Coal slurry		
Dextrose solution		
Diethanolamine		
Diethyl ether	1155	
Diethylene glycol		
Diethylene glycol butyl ether		
Diethylene glycol diethyl		
ether		
Diethylene glycol ethyl ether		
Diethylenetriamine pentaacetic		
acid, pentasodium salt		
solution		
Diheptyl phthalate		
Dihexyl phthalate		
Diisooctyl phthalate		
Dioctyl phthalate		
Dipropylene glycol		
Dodecane (all isomers)		
Dodecyl benzene		
Dodecyl methacrylate		
Dodecyl/Pentadecyl		
methacrylate mixture		
Drilling brines:		
Calcium bromide solution		
Calcium chloride solution		
Sodium chloride solution		
Ethyl alcohol	1170	
Ethylene carbonate		
Ethylene glycol butyl ether	2369	
Ethylene glycol tert-butyl		
ether		

Substance	UN Number	
Ethylene-vinyl acetate		
copolymer (emulsion)		
Fatty acids (saturated, C13		
above)		
Glucose solution		
Glycerine		
Glycerol polyalkoxylate		
Glyceryl triacetate		
Glycine, sodium salt solution		
Hexamethylene glycol		
Hexylene glycol		
Isobutyl alcohol	1212	
Isopropyl acetate	1220	
Isopropyl alcohol	1219	
Kaolin slurry		
Lard		
Latex: Carboxylated		
styrene-butadiene copolymer		
Latex: Styrene-butadiene		
rubber		
Lignin sulphonic acid, sodium		
salt solution		
Magnesium chloride solution		
Magnesium hydroxide slurry		
3-Methoxy-1-butanol		
Methyl acetate	1231	
Methyl alcohol	1230	
Methyl ethyl ketone		
2-Methyl-2-hydroxy-3-butyne		
3-Methyl-3-methoxy butanol		
3-Methyl-3-methoxy butyl		
acetate		
Molasses		
Octyl decyl adipate		
alpha-Olefins (C13-C20)		
Olefins (C13 and above, all		
isomers)		
n-Paraffins (Cl0-C20)		
Paraffin wax		
Petrolatum Pelvelyminium ablanida		
Polyaluminium chloride		
solution Balyhytana		
Polybutene Polybutene glygol dimethyl		
Polyethylene glycol dimethyl ether		
Polyethylene glycol Polypropylene glycol methyl		
ether		
Polysiloxane		
n-Propyl alcohol		
Propylene glycol		
Propylene-butylene copolymer		
Sodium alumino silicate slurry		
Sodium chlorate solution (50%	2428	
or less)	2720	
Sorbitol solution		
Sulphur (molten)	2448	
Tetraethylene glycol	∠ 110	
Tridecane		
Tridecane Tridecanoic acid		
Triethylene glycol		
Triethylene glycol butyl ether		
Triisopropanolamine		
Theopropanoianine		

Substance

UN Number

Tripropylene glycol Urea formaldehyde resin solution Urea solution Vegetable protein solution (hydrolysed) Water

39,

(v) replace Schedule 3 by the following-

"SCHEDULE 3

Regulations 1(2), 18 and 28

OIL-LIKE SUBSTANCES

Category C substances

Aviation alkylates Cycloheptane Cyclohexane Cyclopentane p-Cymene Diethylbenzene Dipentene Ethylbenzene Ethylcyclohexane Heptene (all isomers) Hexane (all isomers) Hexene (all isomers) Isopropyl cyclohexane Methyl cyclohexane Nonane (all isomers) Octane (all isomers) Olefin mixtures (C_5-C_7) Pentane (all isomers) l-Phenyl-1-xylylethane Propylene dimer Tetrahydronaphthalene Toluene **Xylenes**

Category D substances

Alkyl (C₉-C₁₇) benzenes Diisopropyl naphthalene Dodecane (all isomers) (vi) add as Schedule 4 the following-

"SCHEDULE 4

Regulations 1(2), 28

CLASSES OF NOT OTHERWISE SPECIFIED (N.O.S.) SUBSTANCES*

Substance	Pollution		
	Category for operational discharge	Residual conce (Percent by w Outside special areas	
Noxious liquid, N.F, (l) n.o.s. (trade name contains) S.T.1, Cat. A	Α	0.1	0.05
Noxious liquid, F, (2) n.o.s. (trade name, contains) S.T.1, Cat. A	A	0.1	0.05
Noxious liquid, N.F, (3) n.o.s. (trade name, contains) S.T.2, Cat. A	Α	0.1	0.05
Noxious liquid. F, (4) n.o.s. (trade name, contains) S.T.2, Cat. A	. A	0.1	0.05
Noxious liquid, N.F, (5) n.o.s. (trade name, contains) S.T.2. Cat. B	В		
Noxious liquid. N.F, (6) n.o.s. (trade name, contains) S.T. 2, Cat. B. mp ≥ 15°C	В		
Noxious liquid. F, (7) n.o.s. (trade name, contains) S.T.2, Cat. B	В		
Noxious liquid, F, (8) n.o.s. (trade name, contains) S.T.2, Cat. B, mp ≥, 15°C	В		
Noxious liquid, N.F, (9) n.o.s. (trade name, contains) S.T.3, Cat. A	Α	0.1	0.05
Noxious liquid. F, (10) n.o.s. (trade name, contains) S.T.3, CatA	A	0.1	0.05
Noxious liquid, N.F, (11) n.o.s. (trade name, contains) S.T.3, Cat. B	В		
Noxious liquid, N.F, (12) n.o.s. (trade name, contains) S.T.3, Cat. B, mp ≥ 15°C	В		
Noxious liquid, F, (13) n.o.s. (trade name, contains) S.T.3, Cat. B	В		
Noxious liquid, F, (14) n.o.s. (trade name, contains) S.T.3, Cat. B, mp ≥ 15°C	В		
Noxious liquid, N.F, (15) n.o.s. (trade name, contains) S.T.3, Cat. C	C		

".

SCHEDULE 4 - continued

6	Pollution Category for operational discharge	Residual conc (Percent by w	
	_	Outside special areas	Within special areas
Noxious liquid, F, (16) n.o.s. (trade name, contains) S.T.3, Cat. C	C		
Noxious liquid, (17) n.o.s. (trade name, contains) Cat D	D D		
Noxious liquid, (18) n.o.s. (trade name, contains) App.	ш ш		

Key to Schedule 4:

* Where a cargo is assessed as falling within an n.o.s. class, the class including any cargo trade name with the principal component contributing to the pollution category must be provided in the shipping document.

N.F. : Flashpoint exceeding 60°C (closed cup test)
F. : Flashpoint not exceeding 60°C (closed cup test)

n.o.s. : not otherwide specified

S.T. : Ship type when carried in a chemical tanker

Cat : Pollution category

mp : Melting point
App III : Appendix III of MARPOL 73/78 Annex II (a "non-polluting" substance)"

Signed by authority of the Secretary of State for Transport 19th December 1990 Patrick McLoughlin
Parliamentary Under Secretary of State,
Department of Transport

EXPLANATORY NOTE

(This note is not part of the Regulations)

These Regulations amend the Merchant Shipping (Control of Pollution by Noxious Liquid Substances in Bulk) Regulations 1987.

They give effect to amendments to Annex II of MARPOL 73/78 adopted by the Marine Environment Protection Committee of the International Maritime Organization. The amendments are largely concerned with changes in lists of substances (the Appendices to Annex II) and consequent changes (mainly additions) to the product lists contained in the bulk chemical codes. New editions of the IBC Code and the BCH Code have been produced by IMO.

The changes in the substance lists arise partly because of additions but some rational-isation of nomenclature has taken place with a number of substances being deleted in favour of the use of generic grouping. Some re-assessment of categorisation has occurred and also some re-evaluation (i.e. some substances which were pollutants have become non-pollutants and vice versa).

The list of oil-like substances has been re-assessed and additions have been made whilst most substances which were "provisionally listed" and the subject of Merchant Shipping Notice M1270 have been consolidated in the schedules which now includes (Schedule 4) the class approved not otherwise specified (n.o.s.) groups.

Copies of IMO amendments and Codes referred to are obtainable from the International Maritime Organization, 4 Albert Embankment, London SEl 7SR.