

**International Convention relating to Intervention on the High  
Seas in Cases of Oil Pollution Casualties (1969)**

**and**

**Protocol relating to Intervention on the High Seas  
in Cases of Pollution by Substances other than Oil, 1973**

*1977 Edition*

**Supplement**

**ANNEX TO THE 1973 INTERVENTION PROTOCOL**

**LIST OF SUBSTANCES**

(Sales number: I402E)

# ANNEX TO THE 1973 INTERVENTION PROTOCOL\*

## LIST OF SUBSTANCES

### Appendix 1

#### Oils carried in bulk as listed in Appendix I to Annex I of MARPOL 73/78 other than those covered by the 1969 Intervention Convention

##### **Asphalt solutions**

Blending stocks  
Roofers flux  
Straight run residue

##### **Oils**

Clarified  
Road oil  
Transformer oil  
Aromatic oil (excluding vegetable oil)  
Mineral oil  
Motor oil  
Penetrating oil  
Spindle oil  
Turbine oil

##### **Distillates**

Straight run  
Flashed feed stocks

##### **Gas oil**

Cracked

##### **Gasoline blending stocks**

Alkylates – fuel  
Reformats  
Polymer – fuel

##### **Gasolines**

Casinghead (natural)  
Automotive  
Aviation  
Straight run  
Fuel oil No. 1 (kerosene)  
Fuel oil No. 1-D  
Fuel oil No. 2  
Fuel oil No. 2-D

##### **Jet fuels**

JP-1 (kerosene)  
JP-3  
JP-5 (kerosene, heavy)  
Turbo fuel  
Kerosene  
Mineral spirit

##### **Naphtha**

Solvent  
Petroleum  
Heartcut distillate oil

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\* This annex was adopted by the Marine Environment Protection Committee on 10 July 1996 by resolution MEPC.72(38) and will have been accepted six months after it was communicated to Parties to the Protocol unless there have been objections by one third of the Parties during that period. It replaces a similar list that was adopted by MEPC.49(31) on 4 July 1991, which itself replaced the list that was adopted by MEPC.1(II) and annexed to the Protocol.

## Appendix 2

### Noxious liquid substances carried in bulk

Acetone cyanohydrin  
Acrylonitrile  
Alachlor technical (90% or more)  
Alcohol (C<sub>12</sub>–C<sub>15</sub>) poly(1–6)ethoxylates  
Alcohol (C<sub>12</sub>–C<sub>15</sub>) poly(7–19)ethoxylates  
Alcohol (C<sub>6</sub>–C<sub>17</sub>) (secondary) poly(3–6)ethoxylates  
Alcohol (C<sub>6</sub>–C<sub>17</sub>) (secondary) poly(7–12)ethoxylates  
Alkaryl polyethers (C<sub>9</sub>–C<sub>20</sub>)  
Alkyl acrylate–vinylpyridine copolymer in toluene  
Alkylbenzene, alkylindane, alkylindene mixture (each C<sub>12</sub>–C<sub>17</sub>)  
Alkyl(C<sub>3</sub>–C<sub>4</sub>)benzenes  
Alkyl(C<sub>5</sub>–C<sub>8</sub>)benzenes  
Alkyl (C<sub>7</sub>–C<sub>9</sub>) nitrates  
Allyl alcohol  
Allyl chloride  
Ammonium sulphide solution (45% or less)  
Aniline  
Benzene and mixtures having 10% benzene or more  
Benzyl alcohol  
Benzyl chloride  
Butene oligomer  
Butyl acrylate (all isomers)  
Butylamine (all isomers)  
Butyl benzyl phthalate  
Butyl butyrate (all isomers)  
Butyraldehyde (all isomers)  
Calcium alkyl(C<sub>9</sub>)phenol sulphide/polyolefin phosphorusulphide mixture  
Calcium hypochlorite solution (more than 15%)  
Calcium long-chain alkyl phenate sulphide (C<sub>8</sub>–C<sub>40</sub>)  
Camphor oil  
Carbolic oil  
Carbon disulphide  
Carbon tetrachloride  
Chlorinated paraffins (C<sub>10</sub>–C<sub>13</sub>)  
Chloroacetic acid (80% or less)  
Chlorobenzene  
Chloroform  
Chlorohydrins (crude)

*o*-Chloronitrobenzene  
2- or 3-Chloropropionic acid  
*m*-Chlorotoluene  
*o*-Chlorotoluene  
*p*-Chlorotoluene  
Chlorotoluenes (mixed isomers)  
Coal tar  
Coal tar naphtha solvent  
Coal tar pitch (molten)  
Cobalt naphthenate in solvent naphtha  
Creosote (coal tar)  
Creosote (wood)  
Cresols (all isomers)  
Cresylic acid, dephenolized  
Cresylic acid, sodium salt solution  
Crotonaldehyde  
1,5,9-Cyclododecatriene  
Cyclohexyl acetate  
Cyclohexylamine  
1,3-Cyclopentadiene dimer (molten)  
Cyclopentene  
Decanoic acid  
Decene  
Decyl acetate  
Decyl acrylate  
Decyl alcohol (all isomers)  
Decyloxytetrahydrothiophene dioxide  
Dibutylamine  
Dibutyl hydrogen phosphonate  
Dibutyl phthalate  
Dichlorobenzene (all isomers)  
Dichloroethyl ether  
1,6-Dichlorohexane  
2,4-Dichlorophenol  
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution  
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)  
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution  
1,2-Dichloropropane  
1,3-Dichloropropene  
Dichloropropene/dichloropropane mixtures  
Diethylamine

Diethylaminoethanol  
Diethylbenzene  
Diethyl sulphate  
Diglycidyl ether of bisphenol A  
Diglycidyl ether of bisphenol F  
Di-*n*-hexyl adipate  
Diisobutylamine  
Diisobutylene  
Diisobutyl phthalate  
Diisopropylamine  
Diisopropylbenzene (all isomers)  
Dimethyl adipate  
Dimethylamine solution (45% or less)  
Dimethylamine solution (greater than 45% but not greater than 55%)  
Dimethylamine solution (greater than 55% but not greater than 65%)  
*N,N*-Dimethylcyclohexylamine  
Dimethyl hydrogen phosphite  
Dimethyloctanoic acid  
Dinitrotoluene (molten)  
1,4-Dioxane  
Diphenyl  
Diphenylamine, reaction product with 2,2,4-trimethylpentene  
Diphenylamines, alkylated  
Diphenyl/diphenyl ether mixtures  
Diphenyl ether  
Diphenyl ether/diphenyl phenyl ether mixture  
Diphenylmethane diisocyanate  
Diphenylol propane  
Diphenylol propane–epichlorohydrin resins  
Di-*n*-propylamine  
Dodecene (all isomers)  
Dodecyl alcohol  
Dodecylamine/tetradecylamine mixture  
Dodecyldimethylamine/tetradecyldimethylamine mixture  
Dodecyl diphenyl ether disulphonate solution  
Dodecylphenol  
Drilling brines (containing zinc salts)  
Epichlorohydrin  
Ethyl acrylate  
Ethylamine  
Ethylamine solutions (72% or less)  
Ethylbenzene

*N*-Ethylbutylamine  
Ethylene chlorohydrin  
Ethylenediamine  
Ethylene dibromide  
Ethylene dichloride  
Ethylene glycol methyl ether acetate  
Ethylene oxide/propylene oxide mixtures with an ethylene oxide content of not more than 30% in weight  
2-Ethylhexyl acrylate  
2-Ethylhexylamine  
Ethylidenenorbornene  
*o*-Ethylphenol  
2-Ethyl-3-propylacrolein  
Ethyltoluene  
Fluorosilicic acid (20–30%) in water solution  
Formaldehyde solutions (45% or less)  
Fumaric adduct of rosin, water dispersion  
Furfural  
Glycidyl ester of C<sub>10</sub> trialkylacetic acid  
Heptyl acetate  
Hexamethylenediamine solution  
Hexyl acetate  
2-Hydroxyethyl acrylate  
2-Hydroxy-4-(methylthio)butanoic acid  
Isophoronediamine  
Isophorone diisocyanate  
Lactonitrile solution (80% or less)  
Lauric acid  
Liquid chemical wastes  
Long-chain alkaryl polyether (C<sub>11</sub>–C<sub>20</sub>)  
Long-chain polyetheramine in alkyl(C<sub>2</sub>–C<sub>4</sub>)benzenes  
Long-chain polyetheramine in aromatic solvent  
Magnesium long-chain alkyl salicylate (C<sub>11+</sub>)  
Mercaptobenzothiazol, sodium salt solution  
Metam sodium solution  
Methacrylic resin in ethylene dichloride  
Methyl acrylate  
Methyl butyl ketone  
Methylcyclopentadiene dimer  
2-Methyl-6-ethylaniline  
Methyl heptyl ketone  
Methyl methacrylate

Methylnaphthalene (molten)  
 3-Methylpyridine  
 Methyl salicylate  
*alpha*-Methylstyrene  
 Motor fuel anti-knock compounds (containing lead alkyls)  
 Naphthalene (molten)  
 Naphthenic acids  
 Neodecanoic acid  
 Nitrating acid (mixture of sulphuric and nitric acids)  
 Nitrobenzene  
*o*-Nitrophenol (molten)  
*o*- or *p*-Nitrotoluenes  
 Nonene (all isomers)  
 Nonylphenol  
 Nonylphenol poly(4–12)ethoxylates  
 Noxious liquid, N.F., (1) n.o.s. (trade name..., contains...) S.T. 1, Cat. A\*  
 Noxious liquid, F., (2) n.o.s. (trade name..., contains...) S.T. 1, Cat. A\*  
 Noxious liquid, N.F., (3) n.o.s. (trade name..., contains...) S.T. 2, Cat. A\*  
 Noxious liquid, F., (4) n.o.s. (trade name..., contains...) S.T. 2, Cat. A\*  
 Noxious liquid, N.F., (5) n.o.s. (trade name..., contains...) S.T. 2, Cat. B\*  
 Noxious liquid, N.F., (6) n.o.s. (trade name..., contains...) S.T. 2, Cat. B,  
 m.p. 15°C + \*  
 Noxious liquid, F., (7) n.o.s. (trade name..., contains...) S.T. 2, Cat. B\*  
 Noxious liquid, F., (8) n.o.s. (trade name..., contains...) S.T. 2, Cat. B, m.  
 p. 15°C + \*  
 Noxious liquid, N.F., (9) n.o.s. (trade name..., contains...) S.T. 3, Cat. A\*  
 Noxious liquid, F., (10) n.o.s. (trade name..., contains...) S.T. 3, Cat. A\*  
 Noxious liquid, N.F., (11) n.o.s. (trade name..., contains...) S.T. 3, Cat. B\*  
 Noxious liquid, N.F., (12) n.o.s. (trade name..., contains...) S.T. 3, Cat. B,  
 m.p. 15°C + \*  
 Noxious liquid, F., (13) n.o.s. (trade name..., contains...) S.T. 3, Cat. B\*  
 Noxious liquid, F., (14) n.o.s. (trade name..., contains...) S.T. 3, Cat. B,  
 m.p. 15°C + \*  
 Octene (all isomers)  
 Octyl aldehydes  
 Olefin mixtures (C<sub>5</sub>–C<sub>15</sub>)  
*alpha*-Olefins (C<sub>6</sub>–C<sub>18</sub>) mixtures  
 Oleum

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\* Abbreviations used mean: N.F. – flashpoint exceeding 60°C (closed-cup test); F. – flashpoint not exceeding 60°C (closed-cup test); n.o.s. – not otherwise specified; S.T. – ship type; Cat. – pollution category; m.p. – melting point (see IBC Code).

Oleylamine  
Palm kernel acid oil  
Pentachloroethane  
Perchloroethylene  
Phosphorus, yellow or white  
Phthalic anhydride (molten)  
*alpha*-Pinene  
*beta*-Pinene  
Poly(2+)cyclic aromatics  
Polyethylene polyamines  
Polyolefin amide alkeneamine (C<sub>28+</sub>)  
Polyolefin amide alkeneamine borate (C<sub>28</sub>-C<sub>250</sub>)  
Polyolefin amide alkeneamine polyol  
Polyolefinamine in alkyl(C<sub>2</sub>-C<sub>4</sub>)benzenes  
Polyolefinamine in aromatic solvent  
Polyolefin ester (C<sub>28</sub>-C<sub>250</sub>)  
*beta*-Propiolactone  
Propionitrile  
*n*-Propylamine  
Propylbenzene (all isomers)  
Propylene oxide  
Propylene tetramer  
Propylene trimer  
Rosin  
Rosin soap (disproportionated) solution  
Sodium dichromate solution (70% or less)  
Sodium hydrogen sulphide (6% or less)/sodium carbonate (3% or less) solution  
Sodium hydrosulphide/ammonium sulphide solution  
Sodium hydrosulphide solution (45% or less)  
Sodium nitrite solution  
Sodium petroleum sulphonate  
Sodium sulphide solution (15% or less)  
Sodium thiocyanate solution (56% or less)  
Styrene monomer  
Sulpho hydrocarbon long-chain (C<sub>18+</sub>) alkylamine mixture  
Sulphuric acid  
Sulphuric acid, spent  
Tall oil (crude and distilled)  
Tall oil fatty acid, barium salt  
Tall oil fatty acid (resin acids less than 20%)  
Tall oil soap (disproportionated) solution



Tetrachloroethane  
Tetramethylbenzene (all isomers)  
Toluene  
Toluenediamine  
Toluene diisocyanate  
*o*-Toluidine  
Tributyl phosphate  
1,2,4-Trichlorobenzene  
Trichloroethylene  
Tricresyl phosphate (containing less than 1% *ortho*-isomer)  
Tricresyl phosphate (containing 1% or more *ortho*-isomer)  
Triethylamine  
Triethylbenzene  
Triethylenetetramine  
Triethyl phosphite  
Triisopropylated phenyl phosphates  
Trimethylamine solution (30% or less)  
Trimethylbenzene (all isomers)  
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)  
Trixylyl phosphate  
Turpentine  
Undecanoic acid  
1-Undecene  
Undecyl alcohol  
Vinylidene chloride  
Vinyl neodecanoate  
Vinyltoluene  
White spirit, low (15–20%) aromatic  
Xylenes  
Xylenol  
Zinc alkaryl dithiophosphate (C<sub>7</sub>–C<sub>16</sub>)  
Zinc alkyl dithiophosphate (C<sub>3</sub>–C<sub>14</sub>)

### Appendix 3

#### Harmful substances in packaged form

Aldrin  
Azinphos-ethyl  
Azinphos-methyl  
*gamma*-BHC  
Binapacryl  
Brodifacoum  
Bromophos-ethyl  
Cadmium compound  
Camphechlor  
Carbophenothion  
Chlordane  
Chlorinated paraffins (C<sub>10</sub>–C<sub>13</sub>)  
Chlorophenolates, liquid  
Chlorophenolates, solid  
Chlorpyrifos  
Chlorthiophos  
Copper cyanide  
Copper metal powder  
Coumaphos  
Cresyl diphenyl phosphate  
Cupric cyanide  
Cupric sulphate  
1,5,9-Cyclododecatriene  
Cyhexatin  
Cymenes (*ortho*-; *meta*-; *para*-)  
Cymol  
Cypermethrin  
DDT  
Dialifos  
Diazinon  
Dichlofenthion  
Dichlorvos  
Dieldrin  
Dimethoate  
Diphenylamine chloroarsine  
Diphenylchloroarsine, liquid  
Diphenylchloroarsine, solid  
Dodecylphenol  
Endosulfan

Endrin  
EPN  
Esfenvalerate  
Ethion  
Fenbutatin oxide  
Fenitrothion  
Fenpropathrin  
Fenthion  
Fentin acetate  
Fentin hydroxide  
Fonofos  
Heptachlor  
Hexachlorobutadiene  
Hexachloro-1,3-butadiene  
1,3-Hexachlorobutadiene  
Isopropyltoluene  
Isopropyltoluol  
Isoxathion  
Lindane  
Mercuric acetate  
Mercuric ammonium chloride  
Mercuric arsenate  
Mercuric benzoate  
Mercuric bisulphate  
Mercuric bromide  
Mercuric chloride  
Mercuric cyanide  
Mercuric gluconate  
Mercuric nitrate  
Mercuric oleate  
Mercuric oxide  
Mercuric oxycyanide, desensitized  
Mercuric potassium cyanide  
Mercuric sulphate  
Mercuric thiocyanate  
Mercuriol  
Mercurous acetate  
Mercurous bisulphate  
Mercurous bromide  
Mercurous chloride  
Mercurous nitrate  
Mercurous salicylate

Mercurous sulphate  
Mercury acetate  
Mercury ammonium chloride  
Mercury-based pesticide, liquid, flammable, toxic, flashpoint less than 23°C c.c.  
Mercury-based pesticide, liquid, toxic  
Mercury-based pesticide, liquid, toxic, flammable, flashpoint between 23°C and 61°C c.c.  
Mercury-based pesticide, solid, toxic  
Mercury benzoate  
Mercury bichloride  
Mercury bisulphate  
Mercury bromides  
Mercury compound, liquid, n.o.s.  
Mercury compound, solid, n.o.s.  
Mercury(I) (mercurous) compounds  
Mercury(II) (mercuric) compounds  
Mercury cyanide  
Mercury gluconate  
Mercury nucleate  
Mercury oleate  
Mercury oxide  
Mercury oxycyanide, desensitized  
Mercury potassium cyanide  
Mercury potassium iodide  
Mercury salicylate  
Mercury sulphate  
Mercury thiocyanate  
Methylpropylbenzenes  
Mevinphos  
Nickel carbonyl  
Nickel cyanide  
Nickel tetracarbonyl  
Organotin compound, liquid, n.o.s.  
Organotin compound, solid, n.o.s.  
Organotin compounds (pesticides)  
Organotin pesticide, liquid, flammable, toxic, flashpoint less than 23°C c.c.  
Organotin pesticide, liquid, toxic  
Organotin pesticide, liquid, toxic, flammable, flashpoint between 23°C and 61°C c.c.  
Organotin pesticide, solid, toxic  
Osmium tetroxide  
Parathion  
Parathion-methyl

PCB's  
Pentachlorophenol  
Phenarsazine chloride  
Phenthoate  
Phenylmercuric acetate  
Phenylmercuric compound, n.o.s.  
Phenylmercuric hydroxide  
Phenylmercuric nitrate  
Phorate  
Phosalone  
Phosphamidon  
Phosphorus, white, dry  
Phosphorus, white, molten  
Phosphorus, white, under water  
Phosphorus, yellow, dry  
Phosphorus, yellow, molten  
Phosphorus, yellow, under water  
Polychlorinated biphenyls  
Polyhalogenated biphenyls, liquid  
Polyhalogenated biphenyls, solid  
Polyhalogenated terphenyls, liquid  
Polyhalogenated terphenyls, solid  
Potassium cuprocyanide  
Potassium cyanocuprate(I)  
Potassium cyanomercurate  
Potassium mercuric iodide  
Pyrazophos  
Quizalofop  
Quizalofop-P-ethyl  
Sodium copper cyanide, solid  
Sodium copper cyanide, solution  
Sodium cuprocyanide, solid  
Sodium cuprocyanide, solution  
Sodium pentachlorophenate  
Sulprophos  
White phosphorus, dry  
White phosphorus, wet  
Yellow phosphorus, dry  
Yellow phosphorus, wet  
Terbufos  
Tetrachlorvinphos

## **Appendix 4**

### **Radioactive materials**

Radioactive materials which are transported in type B packages, or as fissile materials, or under special arrangements, as covered by the provisions of schedules 10 to 13 of class 7 of the International Maritime Dangerous Goods Code.

## **Appendix 5**

### **Liquefied gases carried in bulk**

|                    |                              |
|--------------------|------------------------------|
| Acetaldehyde       | Hydrogen chloride, anhydrous |
| Ammonia, anhydrous | Hydrogen fluoride, anhydrous |
| Chlorine           | Methyl bromide               |
| Dimethylamine      | Methyl chloride              |
| Ethyl chloride     | Sulphur dioxide              |
| Ethylene oxide     | Vinyl chloride monomer       |