**MINISTRY OF ENVIRONMENT AND FORESTS**
**NOTIFICATION**
New Delhi, the 24th March, 1992

**S.0. 227 (E).-**In exercise of the powers conferred by clause (d) of Section 2 of the Public Liability Insurance Act, 1991 (6 of 1991), the Central Government hereby specifies the quantities shown in column 3 of the Table below for which or exceeding which every owner handling the hazardous substance mentioned in the corresponding entry in column 2 thereof shall take out insurance policy as per the provisions of the said Act.

## TABLE

## LIST OF CHEMICALS WITH QUANTITIES FOR APPLICATION OF PUBLIC LIABILITY INSURANCE ACT

| Sl. No. | Name of hazardous substances | Quantity | CAS Chemical Abstract Service Number |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| **PART - 1** | | | |
| **GROUP 1 - TOXIC SUBSTANCES** | | | |
| 1 | Aldicarb | l00 kg | 116-06-3 |
| 2 | 4-Aminodiphenyl | 1 kg | 96-67- 1 |
| 3 | Amiton | 1 kg | 78-53-5 |
| 4 | Anabasine | 100 kg | 494-52-0 |
| 5 | Arseinc pentoxide, Arsenic (V) acid & salts | 100 kg | |
| 6 | Arsenic trioxide, Arscius (III) acid & salts | 100 kg | |
| 7 | Arsine (Arsenic hydride) | 10 kg | 7784-42- 1 |
| 8 | Azinphos-ethyl | 100 kg | 2642-71-9 |
| 9 | Azinphos-methyl | 100 kg | 86-50-0 |
| 10 | Benzidine | 1 kg | 92-87-5 |
| 11 | Benzidine salts | 1 kg | |
| 12 | Beryllium (powders, compounds) | 10 kg | |
| 13 | Bis (2-chloroethyl) sulphide | 1 kg | 505-60-2 |
| 14 | Bis (chloromethyl) ether | 1 kg | 542-88-1 |
| 15 | Carbophuran | 100 kg | 1563-66-2 |
| 16 | Carbophenothion | 100 kg | 786-19-6 |
| 17 | Chlorefenvinphos | 100 kg | 470-90-6 |
| 18 | 4-(Chloroformyl) morpholine | 1 kg | 15159-40 |
| 19 | Chloromethyl methyl ether | 1 kg | 107-30-2 |
| 20 | Cobalt (metal, oxides, carbonates, sulphides, as powders) | 1 t | |
| 21 | Crimidine | 100 kg | 535-89-7 |
| 22 | Cynthoate | 100 kg | 3734-95-0 |
| 23 | Cycloheximide | 100 kg | 66-81 -9 |
| 24 | Demeton | 100 kg | 806548-3 |
| 25 | Dialifos | 100 kg | 10311-84-9 |
| 26 | OO-Diethyl S-ethylsulphinylmethyl phosphorothiate | 100 kg | 2588-05-8 |

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| 27 | OO-Diethyl S-ethylsulphonylmethyl phosphorothioate | 100 kg | 2588-06-9 |
| 28 | OO-Diethyl S-ethylthiomethyl Phosphorothioate | 100 kg | 2600-69-3 |
| 29 | OO-Diethyl S-isopropylthiomethyl phosphorodithioate | 100 kg | 78-52-4 |
| 30 | OO-Diethyl S-propylthiomethyl phosphorodithioate | 100 kg | 3309-68-0 |
| 31 | Dirnefox | 100kg | 115-264 |
| 32 | Dimethylcarbamoyl chloride | 1 kg | 79-44-7 |
| 33 | Dimelhylnitrosamine | 1 kg | 62-75-9 |
| 34 | Dimethyl phosphoramidocynicidic acid | 1 t | 6391741-9 |
| 35 | Diphacinone | 100kg | 82-66-6 |
| 36 | Disulfoton | 100 kg | 298-04-4 |
| 37 | EPN | 100 kg | 2104-64-5 |
| 38 | Ethion | 100 kg | 563-12-2 |
| 39 | Fensulfothion | 100 kg | 115-90-2 |
| 40 | Fluenetil | 100 kg | 4301-50-2 |
| 41 | Fluroacetic acid | 1 kg | 14449-0 |
| 42 | Fluoroacetic acid, salts | 1 kg | |
| 43 | Ruoroacetic acid, esters | 1 kg | |
| 44 | Fluoroacetic acid, amides | 1 kg | |
| 45 | 4-Fluorobutyric acid | 1 kg | 62-23-7 |
| 46 | 4-Fluorobutyric acid, salts | 1 kg | |
| 47 | 4-Fluorobutyric acid, esters | 1 kg | |
| 48 | 4-Fluorobutyric acid, amides | 1 kg | |
| 49 | 4-Florocrotonic acid | 1 kg | 37759-72- 1 |
| 50 | 4-Fluorocrotonic acid, salts | 1 kg | |
| 51 | 4-Fluorocrotonic acid, esters | 1 kg | |
| 52 | 4-Fluorocrotonic acid, amides | 1 kg | |
| 53 | 4-Fluoro-2-hydroxybutyric acid, amides | 1 kg | |
| 54 | 4-Fluoro-2-hydroxybutyric acid, salts | 1 kg | |
| 55 | 4-Fluoro-2-hydroxybutyric acid, esters | 1 kg | |
| 56 | 4-Fluoro-2-hydroxybutyric acid, amides | 1 kg | |
| 57 | Glycolonitrile (Hydroxyacetoni trile) | 100kg | 107-164 |
| 58 | 1, 2, 3, 7, 8, 9-Hexachlorodibenzo-p-dioxin | 100g | 194-8-74-3 |
| 59 | Hexamethyl phosphoramide | 1 kg | 680-31-9 |
| 60 | Hydrogen selenide | 10 kg | 7783-07-5 |
| 61 | Isobenzan | 100 kg | 297-78-9 |
| 62 | Isodrin | 100 kg | 465-73-6 |
| 63 | Juglone (S-Hydroxynaphithalene 1,4 dione) | 100 kg | 481-39-0 |
| 64 | 4, 4-Methylenebis (2-chloroniline) | 10 kg | 101-14-4 |
| 65 | Mthyl isocynate | 150 kg | 624-83-9 |
| 66 | Mevinphos | 100 kg | 7786 34-7 |
| 67 | 2-Naphthylamine | 1 kg | 91-59-8 |
| 68 | 2-Nickel (metal, oxides, carbonates, | 1 t | |
| 69 | Nickel tetracarbonyl | 10kg | 13463-39-3 |
| 70 | Oxygendisulfoton | 100 kg | 2497-07-6 |
| 71 | Oxygen difuoride | 10kg | 7783-41-7 |
| 72 | Paraxon (Diethyl 4-n;trophenyl phosphate) | 100 kg | 31145-5 |
| 73 | Parathionf | 100 kg | 56-38-2 |

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| 74 | Parathion-methyl | 100 kg | 298-00-0 |
| 75 | Pentaborane | 100 kg | 19624-22-7 |
| 76 | Phorate | 100 kg | 298-02-2 |
| 77 | Phosacetim | 100 kg | 4104-14-7 |
| 78 | Phosgene (carbonyl chloride) | 750 kg | 7544-5 |
| 79 | Phospharnidon | 100 kg | 13171-21-6 |
| 80 | Posphine (Hydrogen phosphide) | 100 kg | 7803-51 -2 |
| 81 | Promurit (1-(3, 4-dichlorophenyl) 3-triazenelhiocarboxamide) | 100kg | 5836-73-7 |
| 82 | 1, 3-Propanesullone | 1 kg | 1120-714 |
| 83 | 1-Propcn-2-chloro-1, 3-diol diacetate | 10 kg | 10118-72-6 |
| 84 | Pyrazoxon | 100 kg | 108-34-9 |
| 85 | Selenium hexalluoride | 10 kg | 7783-79-1 |
| 86 | Sodium selenite | 100 kg | 10102-18-8 |
| 87 | Stibine (Antimony hydride) | 100 kg | 7803-52-3 |
| 88 | Sulfotep | 100 kg | 3689-24-5 |
| 89 | Sulphur dichloride | 1 t | 10545-99-0 |
| 90 | Tellurium hexafluroride | 100 kg | 7783-80-4 |
| 91 | TEPP | 100 kg | 107-49-3 |
| 92 | 2, 3, 7, 8-Telrachlorodibenzo-p-dioxin (TCDD) | 1 kg | 1746-01 -6 |
| 93 | Telramethylenedisulphototramine | 1 kg | 80-12-6 |
| 94 | Thionazin | 100 kg | 297-97-2 |
| 95 | Tirpate (2, 4-Dimethyl-1, 3-di thiolane-2-calboxaldehyde O-methylcarbamoyloxime) | 100 kg | 26419-73-8 |
| 96 | Trichloromethanesulphenyl chloride | 100 kg | 594-42-3 |
| 97 | 1-Tri (cyclohexyl) stannyl-l H-l, 2, 4-triazole | 100 kg | 41083-11-8 |
| 98 | Triethylenemelamine | 10 kg | 51-18-3 |
| 99 | Warfarin | 100 kg | 81-81-2 |
| | | | |
| **GROUP 2-TOXIC SUBSTANCES** | | | |
| | | | |
| 100 | Acetone cyanohydrin (2-Cyanopropan-2-01) | 200 t | 75-86-5 |
| 101 | Acrolein (2-Propenal) | 20 t | 107-02-8 |
| 102 | Acrylonitrile | 20 t | 107-13-1 |
| 103 | Allyl alcohol (Propen-1-01) | 200 t | 107-18-6 |
| 104 | Alylamine | 200 t | 107-11-9 |
| 105 | Ammonia | 50 t | 7664-41 -7 |
| 106 | Bromine | 40 t | 7726-95-6 |
| 107 | Carbon disulphide | 20 t | 75-15-0 |
| 108 | Chlorine | 10 t | 7782-50-5 |
| 109 | Dipneyl ethane di-isocynate (MDI) | 20 t | 101-68-8 |
| 110 | Ethylene dibromide (1, 2-Dibromocthanc) | 5 t | 106-93-4 |
| 111 | Ethyloncimine | 50 t | 151-56-4 |
| 112 | Formaldehyde (concentration <90%) | 5 t | 50-00-0 |
| 113 | Hydrogen cynide | 5 t | 74-90-8 |
| 114 | Hydrogen chloride (liquified gas) | 25 | 7647-01-0 |
| 115 | Hydrogen fluoride | 5 t | 7664-39-3 |
| 116 | Hydrogen sulphide | 5 t | 7783-064 |

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| 117 | Methyl bromide (Bromomethane) | 20 t | 74-83-9 |
| 118 | Nitrogen oxides | 50t | 11104-93-1 |
| 119 | Propylineimine | 50t | 75-55-8 |
| 120 | Sulphur dioxide | 20t | 7446-09-5 |
| 121 | Sulphur trioxide | 15t | 7446-11-9 |
| 122 | Tetraethyl lead | 5 t | 78-00-2 |
| 123 | Tetramethyl lead | 5 t | 75-74- 1 |
| 124 | Toluene di-isocynate (TDI) | 10 t | 584-84-9 |
| | | | 75-01 -4 |
| **GROUP 3-HIGHLY REACTIVE SUBSTANCES** | | | |
| | | | |
| 125 | Acetylene (ethyne) | 5 t | 74-86-2 |
| 126 | a. Ammonium nitrate (I) | 350 t | 6484-52-2 |
| | b. Ammonium nitrate in form of fertiliser (2) | 1250 t | |
| 127 | 2, 2-Bis (tcrt-butylperoxy) butane) (concentration □70%) | 5 t | 2167-23-9 |
| 128 | 1, 1-Bis (tert-butylperoxy) cyclohexane (concentration □80%) | 5 t | 3006-86-8 |
| 129 | tert-Butyl proxyacetate (concentration □70%) | 5 t | 107-71-1 |
| 130 | tert-Butyl peroxyisobutyrate (concentration □80%) | 5 t | 109-13-7 |
| 131 | tert-Butyl peroxy isopropY1 carbonate (concentration -- □80%) | 5 t | 2372-21-6 |
| 132 | tert-Butyl peroxymalcate (concentration- □80%) | 5 t | 1931 -62-0 |
| 133 | tert-Butyl peroxypivalate (concentration □77%) | 50 t | 927-07-1 |
| 134 | dibenzyl peroxydicarbonate (concentration □90%) | 5 t | 2144-45-8 |
| 135 | Di-sec-butyl peroxydicarbonate (concentration □80%) | 5 t | 19910-65-7 |
| 136 | Diethyl peroxydicarbonate (concentration □30%) | 50 t | 14666-78-5 |
| 137 | 2, 2-dihydroperoxypropanc (concentration □30%) | 5 t | 2614-76-08 |
| 138 | di-isobutyryl peroxide concentration □50%) | 50 t | 3437-84- 1 |
| 139 | Di-n-propyl peroxydicarbonate (concentration □80%) | 5 t | 16066-38-9 |
| 140 | Ethylene oxide | 5 t | 75-21 -8 |
| 141 | Elyl nilrat | 50 t | 625-58-1 |
| 142 | 3, 3, 6, 6, 9, 9Hcxamcthyl-1, 2, 4, 5-tertoxacyclononane (concentration □75%) | 50 t | 22397-33-7 |
| 143 | Hydrogen | 2 t | 1333-74-0 |
| 144 | Liquid Oxygen | 200 t | 7782-41 -7 |
| 145 | Melhyl ethyl ketone peroxide (concentration 260%) | 5 t | 1338-93-4 |
| 146 | Methyl isobutyl ketone peroxide (concentration 260%) | 50 t | 37206-20-5 |
| 147 | Peracetic acid (concentration 260%) | 50 t | 79-21-0 |
| 148 | Propylene oxide | 5 t | 75-56-9 |
| 149 | Sodium chlorate | 25 t | 7775-09-9 |
| | | | |
| **GROUP 4 EXPLOSIVE SUBSTANCES** | | | |
| | | | |
| 150 | Barium azide | 50 t | 18810-58-7 |
| 151 | Bis (2,4, 6-trinitrophenyl) amine | 50 t | 131 -073-7 |
| 152 | Chlorotrinitro benzene | 50 t | 28260-61 -9 |
| 153 | Cellulose nitrate (containing 12.6% Nitrogen) | 50 t | 9004-70-0 |
| 154 | Cyclotetramethylenctcranitramine | 50 t | 2691-41 -0 |
| 155 | Cyclotrimethylenetiranitramine | 50 t | 121-82-1 |

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| 156 | Diazodinitsphenol | 10 t | 7008-81-3 |
| 157 | Dicthylene glycol dinitrate | 10 t | 693-21 -0 |
| 158 | Dinitrophenol, salts | 50 t | |
| 159 | Ethylene glycol dinitrate | 10 t | 628-96-6 |
| 160 | l-Gyanyl4-nitrosaminoguanyl- 1 -tetrazene | 10 t | 109-27-3 |
| 161 | 2, 2', 4, 4,' 6, 6'-Hexanirostilbene | 50 t | 20062-22-0 |
| 162 | Hydrazine nitrate | 50 t | 13464-9 / -6 |
| 163 | Lead azide | 50 t | 13424-46-9 |
| 164 | Lead styphnate (Lead 2, 4, 6-trinitroresorcinoxide) | 50 t | 15245-44-0 |
| 165 | Mercury fuliminate | 10 t | 20820-45-5 |
| | | | 628-86-4 |
| 166 | N-Mcthyl-N,2, 4, 6-tetranitroanilinc | 50 t | 479t45-8 |
| 167 | Nitroglycerine | 10 t | 55-63-0 |
| 168 | Pentacrylhrilol tetranitrate | 50 t | 78-11-5 |
| 169 | Picric acid (2, 3, 6-Trinitrophenol) | 50 t | 88-89- 1 |
| 170 | Sodium picramate | 50 t | 831 -52-7 |
| 171 | Styphnic acid (2, 4, 6-TriniLroresorcinol | 50 t | 82-71 -3 |
| 172 | 1, 3, 5-Triamino-2, 4. 6-trinitrobenzene | 50 t | 3058-38-6 |
| 173 | Trinitroaniline- | 50 t | 26952-42- 1 |
| 174 | 2, 4, 6-Trinitroanisole | 50 t | 605-35 9 |
| 175 | Trinitrobenzene | 50 t | 25377-32-6 |
| 176 | Trinitrobenzoic acid | 50 t | 35860-50-5 |
| | | | 129-66-8 |
| 177 | Trinitrocresol | 50 t | 28905-71 -7 |
| 178 | 2,4, 6-Trinitrophenitole | 50 t | 4732-4-3 |
| 179 | 2,4, 6-Trinitrotulene | 50 t | 118-96-7 |

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## PART-II

Classes of hazardous Substances not specifically named in Part-I

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| **GROUP 5-FLAMMABLE SUBSTANCES** | | | |
| 1 | Flammable gases: | 15 t | -- |
| | Substances which in the gaseous state normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20□ C or below; | | |
| | | | |
| 2 | Highly flammable liquids: | 1000 t | -- |
| | Substances which have a flash point lower than 21ø3 C and the boiling point of which at normal pressure is above 20□ C, | | |
| 3 | Flammable liquids: | 25 t | -- |
| | Substances which have a flash point lower than 55□ C and which remain liquid- under pressure, where particular processing conditions, such as high pressure and high temperature, may create major accident hazards. | | |

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