

**MINISTRY OF ENVIRONMENT AND FORESTS
NOTIFICATION**

New Delhi, the 24th March, 1992

S.O. 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

SI. No.	Name of hazardous substances	Quantity	CAS Chemical Abstract Service Number
1	2	3	4
PART - 1			
GROUP 1 - TOXIC SUBSTANCES			
1	Aldicarb	100 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	Arsenic pentoxide, Arsenic (V) acid & salts	100 kg	
6	Arsenic trioxide, Arsenic (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	Chlorethion	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	Cyfluthrin	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

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	Dimefox	100kg	115-264
32	Dimethylcarbamoyl chloride	1 kg	79-44-7
33	Dimethylnitrosamine	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	Fluoroacetic acid	1 kg	14449-0
42	Fluoroacetic acid, salts	1 kg	
43	Fluoroacetic 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-Fluorocrotonic 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 phosphoramidate	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-Hydroxynaphthalene 1,4 dione)	100 kg	481-39-0
64	4, 4-Methylenebis (2-chloroniline)	10 kg	101-14-4
65	Methyl isocyanate	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 difluoride	10kg	7783-41-7
72	Paraxon (Diethyl 4-nitrophenyl phosphate)	100 kg	31145-5
73	Parathion	100 kg	56-38-2

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	Phosphamidon	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 hexafluoride	100 kg	7783-80-4
91	TEPP	100 kg	107-49-3
92	2, 3, 7, 8-Tetrachlorodibenzo-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-I H-I, 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 cyanhydrin (2-Cyanopropan-2-01)	200 t	75-86-5
101	Acrdein (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

117	Methyl bromide (Bromomethane)	20 t	74-83-9
118	Nitrogen oxides	50t	11104-93-1
119	Propyleneimine	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-isocyanate (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 (tert-butylperoxy) butane (concentration \geq 70%)	5 t	2167-23-9
128	1, 1-Bis (tert-butylperoxy) cyclohexane (concentration \geq 80%)	5 t	3006-86-8
129	tert-Butyl peroxyacetate (concentration \geq 70%)	5 t	107-71-1
130	tert-Butyl peroxyisobutyrate (concentration \geq 80%)	5 t	109-13-7
131	tert-Butyl peroxy isopropyl carbonate (concentration \geq 80%)	5 t	2372-21-6
132	tert-Butyl peroxyacetate (concentration \geq 80%)	5 t	1931 -62-0
133	tert-Butyl peroxyisobutyrate (concentration \geq 77%)	50 t	927-07-1
134	dibenzyl peroxydicarbonate (concentration \geq 90%)	5 t	2144-45-8
135	Di-sec-butyl peroxydicarbonate (concentration \geq 80%)	5 t	19910-65-7
136	Diethyl peroxydicarbonate (concentration \geq 30%)	50 t	14666-78-5
137	2, 2-dihydroperoxypropane (concentration \geq 30%)	5 t	2614-76-08
138	di-isobutyl peroxide (concentration \geq 50%)	50 t	3437-84- 1
139	Di-n-propyl peroxydicarbonate (concentration \geq 80%)	5 t	16066-38-9
140	Ethylene oxide	5 t	75-21 -8
141	Ethyl nitrate	50 t	625-58-1
142	3, 3, 6, 6, 9, 9-Hexamethyl-1, 2, 4, 5-tetraoxacyclononane (concentration \geq 75%)	50 t	22397-33-7
143	Hydrogen	2 t	1333-74-0
144	Liquid Oxygen	200 t	7782-41 -7
145	Methyl 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	Cyclotetramethylenetetranitramine	50 t	2691-41 -0
155	Cyclotrimethylenetetranitramine	50 t	121-82-1

156	Diazodinitrophenol	10 t	7008-81-3
157	Dichylene glycol dinitrate	10 t	693-21-0
158	Dinitrophenol, salts	50 t	
159	Ethylene glycol dinitrate	10 t	628-96-6
160	l-Glyceryl 4-nitrosaminoguanyl-1-tetrazene	10 t	109-27-3
161	2, 2', 4, 4', 6, 6'-Hexanitrostilbene	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-trinitroresorcinol)	50 t	15245-44-0
165	Mercury fulminate	10 t	20820-45-5
			628-86-4
166	N-Methyl-N, 2, 4, 6-tetranitroaniline	50 t	47945-8
167	Nitroglycerine	10 t	55-63-0
168	Pentacyclorhithol 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-Trinitroresorcinol)	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-Trinitrophenol	50 t	4732-4-3
179	2,4, 6-Trinitrotoluene	50 t	118-96-7

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 21 °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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