

# Safety Manual

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April 2008

## Table 1. Organic Solvents

(Ordinance on Prevention of Organic Solvent Poisoning)

Note: In the case of a mixture, the ordinance applies if the mixture contains more than 5% by weight of any one of the following organic solvents.

<b>Class 1 Organic Solvents (7 substances)</b>	
(Halogenated hydrocarbons)	
1	Chloroform
2	Carbon tetrachloride
3	1,2-Dichloroethane
4	1,2-Dichloroethylene
5	Trichloroethylene
6	1,1,2,2-Tetrachloroethane
(Sulfides)	
7	Carbon disulfide
<b>Class 2 Organic Solvents (40 substances)</b>	
(Hydrocarbons)	
8	<i>n</i> -Hexane
9	Toluene
10	Xylene
11	Styrene
(Halogenated hydrocarbons)	
12	Dichloromethane (otherwise known as Methylene chloride)
13	1,1,1-Trichloroethane
14	Tetrachloroethylene (otherwise known as Perchloroethylene)
15	Chlorobenzene
16	<i>o</i> -Dichlorobenzene
(Alcohols)	
17	Methanol (otherwise known as Methyl alcohol)
18	Isopropyl alcohol
19	1-Butanol
20	2-Butanol
21	Isobutyl alcohol
22	Isopentyl alcohol (otherwise known as Isoamyl alcohol)
23	Cyclohexanol
24	Methylcyclohexanol

<b>(Ketones)</b>	
25	Acetone
26	Ethyl methyl ketone
27	Butyl methyl ketone
28	Isobutyl methyl ketone
29	Cyclohexanone
30	Methylcyclohexanone
<b>(Ethers)</b>	
31	Ethyl ether
32	Ethylene glycol monomethyl ether (otherwise known as Methyl cellosolve)
33	Ethylene glycol monoethyl ether (otherwise known as Cellosolve)
34	Ethylene glycol monoethyl ether acetate (otherwise known as Cellosolve acetate)
35	Ethylene glycol monobutyl ether (otherwise known as Butyl cellosolve)
36	1,4-Dioxane
<b>(Esters)</b>	
37	Methyl acetate
38	Ethyl acetate
39	Propyl acetate
40	Isopropyl acetate
41	Butyl acetate
42	Isobutyl acetate
43	Pentyl acetate (otherwise known as Amyl acetate)
44	Isopentyl acetate (otherwise known as Isoamyl acetate)
<b>(Others)</b>	
45	Cresol
46	<i>N,N</i> -Dimethylformamide
47	Tetrahydrofuran
<b>Class 3 Organic Solvents (7 substances)</b>	
48	Gasoline
49	Petroleum ether
50	Petroleum benzine
51	Petroleum naphtha
52	Coal tar naphtha
53	Mineral spirits
54	Turpentine oil

## Table 2. Specified Chemical Substances

(Ordinance on Prevention of Hazards due to Specified Chemical Substances)

Note 1: Substances indicated by an asterisk are special chemical substances (22 substances).

Note 2: In the case of a mixture, the ordinance applies if the mixture contains more than the concentration indicated in parenthesis.

<b>Type 1 Substances (7 substances)</b>
Polychlorinated biphenyl (1 w/w%) Dichlorobenzidine and its salts* (1 w/w%) <i>α</i> -Naphthylamine and its salts* (1 w/w%) <i>o</i> -Tolidine and its salts* (1 w/w%) Dianisidine and its salts* (1 w/w%) Benzotrichloride* (0.5 w/w%) Beryllium and its compounds* (1 w/w%, but in case of its alloy, 3 w/w%)
<b>Type 2 Substances (37 substances)</b>

Hydrogen cyanide (1 w/w%)  
Methyl bromide (1 w/w%)  
Acrylamide (1 w/w%)  
Acrylonitrile (1 w/w%)  
Chlorine (1 w/w%)  
Tolylene diisocyanate (1 w/w%)  
*p*-Chloronitrobenzene (5 w/w%)  
Hydrogen fluoride (5 w/w%)  
Methyl iodide (1 w/w%)  
Hydrogen sulfide (1 w/w%)  
Dimethyl sulfate (1 w/w%)  
Ethyleneimine\* (1 w/w%)  
Ethylene oxide\* (1 w/w%)  
Vinyl chloride\* (1 w/w%)  
Chloromethyl methyl ether\* (1 w/w%)  
3,3'-Dichloro-4,4'-diaminodiphenylmethane\* (1 w/w%)  
Nickel carbonyl\* (1 w/w%)  
*p*-Dimethylaminoazobenzene\* (1 w/w%)  
 $\beta$ -Propiolacton\* (1 w/w%)  
Benzene\* (1 w/w%)  
Auramine\* (1 w/w%)  
Magenta\* (1 w/w%)

Chromic acid and its salts\* (1 w/w%)  
Dichromic acid and its salts\* (1 w/w%)  
Asbestos (excluding Amosite and Crocidolite)\* (1 w/w%)  
Arsenic trioxide\* (1 w/w%)  
Coal tar\* (5 w/w%)  
Alkylmercury compounds (restricted to the substances in which the alkyl radicals are methyl or ethyl radicals) (1 w/w%)  
*o*-Phthalodinitrile (1 w/w%)  
Cadmium and its compounds (1 w/w%)  
Vanadium pentoxide (1 w/w%)  
Potassium cyanide (5 w/w%)  
Sodium cyanide (5 w/w%)  
Mercury and its inorganic compounds (1 w/w%)  
Nitroglycol (1 w/w%)  
Pentachlorophenol (1 w/w%)  
Manganese and its compounds (excluding basic manganese oxides) (1 w/w%)

**Type 3 Substances (9 substances)**

Sulfuric acid (1 w/w%)  
Nitric acid (1 w/w%)  
Hydrogen chloride (1 w/w%)  
Sulfur dioxide (1 w/w%)  
Carbon monoxide (1 w/w%)  
Ammonia (1 w/w%)  
Phosgene (1 w/w%)  
Phenol (5 w/w%)  
Formaldehyde (1 w/w%)

### Table 3. Poisonous Substances

(Designated by Poisonous and Deleterious Substances Control Law)

Note: Substances with asterisk are the specified poisonous substances.

1	<i>O</i> -Ethyl <i>O</i> -( <i>p</i> -nitrophenyl) phenylphosphonothioate (otherwise known as EPN)
2	Yellow phosphorus
3	1,3,4,5,6,7,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran
4	Octamethylpyrophosphoramidate (otherwise known as Schradan)*
5	Curare
6	Tetraalkyllead *
7	Hydrogen cyanide
8	Sodium cyanide
9	<i>O,O</i> -Diethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate (otherwise known as Parathion)*
10	Dinitrocresol
11	2,4-Dinitro-6-(1-methylpropyl)-4,6-dinitrophenol
12	<i>S</i> -(2-Ethylthioethyl) <i>O,O</i> -dimethyl thiophosphate (otherwise known as Methylmeton)*
13	2-Chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl phosphate *
14	<i>O,O</i> -Dimethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate (otherwise as methylparathion)*
15	Mercury
16	Selenium
17	Thiosemicarbazide
18	Tetraethyl pyrophosphate (otherwise known as TEPP)*
19	Nicotine
20	Nickel carbonyl
21	Arsenic
22	Hydrogen fluoride
23	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene (otherwise known as Endrin)
24	6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide
25	Monofluoroacetic acid*
26	Monofluoroacetamide*
27	Phosphorus sulfide
28	In addition to the above substances, any preparation containing any one of the above substances, or any highly toxic substance designated by a separate ordinance

### List of Specified Poisonous Substances

Anyone using, receiving (buying), or possessing the specified poisonous substances without a researcher license for the specified poisonous substances will be charged under the Poisonous and Deleterious Substances Control Law.

### Poisonous and Deleterious Substances Control Law (Clause 3, Article 2)

Under this law, the specified poisonous substances are poisonous substances shown in Attached Table 3.

Attached Table 3: Specified poisonous substances

1	Octamethylpyrophosphoramide
2	Tetraalkyllead
3	<i>O,O</i> -Diethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate
4	<i>S</i> -(2-Ethylthioethyl) <i>O,O</i> -dimethyl thiophosphate
5	2-Chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl phosphate
6	<i>O,O</i> -Dimethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate
7	Tetraethyl pyrophosphate
8	Monofluoroacetic acid
9	Monofluoroacetamide
10	In addition to the above poisonous substances, any preparation containing any one of the above substances, or any highly toxic substance designated by a separate ordinance

### Poisonous and Deleterious Substances Designated Law (Article 3)

Based on Attached Table 3, No. 10, the following poisonous substances are designated as specified poisonous substances.

1	Any preparation containing octamethylpyrophosphoramide
2	Any preparation containing tetraalkyllead
3	Any preparation containing <i>O,O</i> -diethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate
4	Any preparation containing <i>S</i> -(2-ethylthioethyl) <i>O,O</i> -dimethyl thiophosphate
5	Any preparation containing 2-chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl phosphate
6	Any preparation containing <i>O,O</i> -dimethyl <i>O</i> -( <i>p</i> -nitrophenyl) thiophosphate
7	Any preparation containing tetraethyl pyrophosphate
8	Salts of monofluoroacetic acid and any preparation containing them
9	Any preparation containing monofluoroacetamide
10	Any preparation containing aluminium phosphide and its decomposition-promotion reagent



## Table 4. Deleterious Substances

(Designated by Poisonous and Deleterious Substances Control Law)

1	Acrylonitrile
2	Acrolein
3	Aniline
4	Ammonia
5	<i>O,O</i> -Diethyl <i>O</i> -(2-isopropyl-4-methyl-6-pyrimidyl) thiophosphate (otherwise known as Diazinon)
6	Ethyl <i>N</i> -(diethyldithiophosphorylacetyl)- <i>N</i> -methylcarbamate
7	Ethylene chlorohydrin
8	Hydrogen chloride
9	Mercury(I) chloride
10	Hydrogen peroxide
11	Sodium peroxide
12	Urea peroxide
13	Potassium
14	Alloy of potassium and sodium
15	Cresol
16	Ethyl chloride
17	Chlorosulfonic acid
18	Chloropicrin
19	Methyl chloride
20	Chloroform
21	Fluorosilicic acid
22	Sodium cyanate
23	<i>S</i> -(4-Chlorophenylthiomethyl) <i>O,O</i> -diethyl dithiophosphate
24	<i>O</i> -(2,4-Dichlorophenyl) <i>O,O</i> -diethyl thiophosphate
25	<i>S</i> -(2,5-Dichlorophenylthiomethyl) <i>O,O</i> -diethyl dithiophosphate
26	Carbon tetrachloride
27	Cycloheximide
28	Dichloroacetic acid
29	1,4-Dichlorobutylene
30	2,3-Bis(diethyldithiophosphoro)-1,4-dioxane
31	2-Cyclohexyl-4,6-dinitrophenol
32	2-(1-Methylpropyl)-4,6-dinitrophenyl acetate
33	2-(1-Methylpropyl)-4,6-dinitrophenyl 3,3-dimethylacrylate
34	1,1'-Ethylene-2,2'-bipyridylium dibromide
35	1,2-Dibromoethane (otherwise known as EDB)
36	1,2-Dibromo-3-chloropropane (otherwise known as DBCP)
37	3,5-Dibromo-4-hydroxy-4'-nitroazobenzene
38	<i>S</i> -(2-Ethylsulfinyl-1-methylethyl) <i>O,O</i> -dimethyl dithiophosphate
39	<i>S</i> -(2-Ethylthioethyl) <i>O,O</i> -dimethyl dithiophosphate (otherwise known as Thiometon)
40	2,2-Dichloroethenyl dimethyl phosphate (otherwise known as DDVP)
41	Ethyl dimethyldithiophosphorylphenylacetate
42	1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate
43	<i>O,O</i> -Dimethyl <i>S</i> -phthalimidomethyl dithiophosphate
44	<i>O,O</i> -Dimethyl <i>S</i> -( <i>N</i> -methylcarbamoylethylthioethyl) thiophosphate
45	<i>O,O</i> -Dimethyl <i>S</i> -( <i>N</i> -methylcarbamoylmethyl) dithiophosphate (otherwise known as Dimethoate)
46	<i>O,O</i> -Dimethyl <i>O</i> -(3-methyl-4-methylthiophenyl) thiophosphate
47	Dimethyl sulfate

48	Dichromic acid
49	Oxalic acid
50	Bromine
51	Nitric acid
52	Thallium nitrate
53	Potassium hydroxide
54	Sodium hydroxide
55	Sulfonal
56	<i>O,O,O',O'</i> -Tetraethyl <i>S,S'</i> -methylene phosphorodithioate
57	Triethanolammonium 2-(1-methylpropyl)-4,6-dinitrophenolate
58	Trichloroacetic acid
59	Dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate
60	1,2,5-Trithiocycloheptadiene-3,4,6,7-tetranitrile
61	Toluidine
62	Sodium
63	Nitrobenzene
64	Carbon disulfide
65	Sulfuric acid, fuming
66	<i>p</i> -Toluylenediamine
67	<i>p</i> -Phenylenediamine
68	Picric acid (however, exclusive of explosives)
69	Hydroxylamine
70	Phenol
71	Blasticiden S
72	Bromoethane
73	Hydrogen bromide
74	Bromomethane
75	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,exo-5,8-dimethanonaphthalene (otherwise known as Dieldrin)
76	1,2,3,4,5,6-Hexachlorocyclohexane (otherwise known as Lindane)
77	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,exo-5,8-dimethanonaphthalene (otherwise known as Aldrin)
78	$\beta$ -Naphthol
79	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene (otherwise known as Heptachlor)
80	Pentachlorophenol (otherwise known as PCP)
81	Formaldehyde
82	Chromic acid anhydride
83	Methanol
84	Methylsulfonal
85	1-Naphtyl <i>N</i> -methylcarbamate
86	Monochloroacetic acid
87	Hydrogen iodide
88	Iodine
89	Sulfuric acid
90	Thallium sulfate
91	Zinc phosphide
92	Ethyl thiocynoacetate
93	Rotenone
94	In addition to the above substances, any preparation containing any one of the above substances, or any toxic substance designated by a separate ordinance

**Table 5. Narcotics (Narcotics and Psychoactive Drugs Control Law)**

<b>1. Narcotics and Home Narcotics (No. 76, a)</b>	
1	3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise known as Acetylmethadol) and its salts
2	-3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise known as -Acetylmethadol) and its salts
3	-3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise known as -Acetylmethadol) and its salts
4	-3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise known as -Acetylmethadol) and its salts
5	1-[2-(4-Aminophenyl)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Anileridine) and its salts
6	N-Allylnormorphine (otherwise known as Nalorphine) and its salts
7	3-Allyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as Allylprodine) and its salts
8	Ecgonin and its salts
9	3-(N-Ethyl-N-methylamino)-1,1-di(2-thienyl)-1-butene (otherwise known as Ethylmethylthiambutene) and its salts
10	-3-Ethyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as -Meprodine) and its salts
11	-3-Ethyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as -Meprodine) and its salts
12	2-(4-Chlorobenzyl)-1-(diethylamino)ethyl-5-nitrobenzimidazole (otherwise known as Clonitazene) and its salts
13	Cocaine, Ecgonin and other esters and these salts
14	Coca leaf
15	Codeine and ethylmorphine and other morphine ether and these salts
16	Diacetylmorphine (otherwise known as Heroin) and other morphine esters and these salts
17	1-(3-Cyano-3,3-diphenylpropyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Diphenoxylate) and its salts
18	4-Cyano-2-dimethylamino-4,4-diphenylbutane (otherwise known as Methadone Intermediate) and its salts
19	4-Cyano-1-methyl-4-phenylpiperidine (otherwise known as Pethidine Intermediate A) and its salts
20	1-(Diethylamino)ethyl-2-(4-ethoxybenzyl-5-nitrobenzimidazole (otherwise known as Etonitazene) and its salts
21	3-Diethylamino-1,1-di(2-thienyl)-1-butene (otherwise known as Diethylthiambutene) and its salts
22	Dihydrocodeinone (otherwise known as Hydrocodone) and its salts
23	Dihydrocodeine and its esters and these salts
24	Dihydrodeoxymorphine (otherwise known as Desomorphine) and its salts
25	Dihydrohydroxycodone (otherwise known as Oxycodone) and its esters and these salts
26	Dihydrohydroxymorphine (otherwise known as Oxymorphone) and its salts
27	Dihydromorphine and its esters and these salts
28	Dihydromorphinone (otherwise known as Hydromorphone) and its esters and these salts
29	4,4-Diphenyl-6-piperidino-3-heptanone (otherwise known as Dipipanone) and its salts
30	(2-Dimethylamino)ethyl-1-ethoxy-1,1-diphenylacetate (otherwise known as Dimenoxadol) and its salts
31	3-Dimethylamino-1,1-di(2-thienyl)-1-butene (otherwise known as Desomorphine) and its salts
32	6-Dimethylamino-4,4-diphenyl-3-hexanone (otherwise known as Normethadone) and its

	salts
33	6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise known as Dimepheptanol) and its salts
34	-6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise known as -Methadol) and its salts
35	-6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise known as -Methadol) and its salts
36	6-Dimethylamino-4,4-diphenyl-3-heptanone (otherwise known as Methadone) and its salts
37	4-Dimethylamino-3-methyl-1,2-diphenyl-2-(propionyloxy)butane (otherwise known as Propoxyphene) and its salts
38	6-Dimethylamino-5-methyl-4,4-diphenyl-3-hexanone (otherwise known as Isomethadone) and its salts
39	1,3-Dimethyl-4-phenyl-4-(propionyloxy)azacycloheptane (otherwise known as Proheptazine) and its salts
40	-1,3-Dimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as -Prodine) and its salts
41	-1,3-Dimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as -Prodine) and its salts
42	Thebaine and its salts
43	1,2,5-Trimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise known as Trimeperidine) and its salts
44	6-Nicotinylcodeine (otherwise known as Nicocodine) and its salts
45	Normorphine (otherwise known as Demethylmorphine) and its esters and these salts
46	1-[2-(2-Hydroxyethoxy)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Ethoxeridine) and its salts
47	14-Hydroxydihydromorphine (otherwise known as Hydromorphanol) and its salts
48	3-Hydroxy-N-phenacylmorphinan (excluding of dextrorotatory) and its salts
49	1-(3-Hydroxy-3-phenylpropyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Phenoperidine) and its salts
50	4-(3-hydroxyphenyl)-1-methyl-4-piperidylethylketone (otherwise known as Ketobemidone) and its salts
51	4-(3-Hydroxyphenyl)-1-methylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Hydroxypethidine) and its salts
52	3-Hydroxy-N-phenethylmorphinan (otherwise known as Phenomorphan) and its salts
53	3-Hydroxy-N-methylmorphinan (excluding of dextrorotatory) and its salts
54	3-Hydroxymorphinan (excluding of dextrorotatory) and its salts
55	4-Phenyl-1-[2-(tetrahydrofurfuryloxy)ethyl]piperidine-4-carboxylic acid ethyl ester (otherwise known as Furethidine) and its salts
56	4-Phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Pethidine Intermediate B) and its salts
57	4-Phenyl-1-(3-phenylaminopropyl)piperidine-4-carboxylic acid ethyl ester (otherwise known as Piminodine) and its salts
58	1,2,3,4,5,6-Hexahydro-8-hydroxy-6,11-dimethyl-3-phenethyl-2,6-methano-3-benzazocine (otherwise as Phenazocine) and its salts
59	1,2,3,4,5,6-Hexahydro-8-hydroxy-3,6,11-trimethyl-2,6-methano-3-benzazocine (otherwise known as Metazocine) and its salts
60	1-[2-(Benzyloxy)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Benzethidine) and its salts
61	6-Methyldihydromorphine (otherwise known as Methyldihydromorphine) and its salts
62	Methyldihydromorphinone (otherwise known as Metopon) and its esters and these salts
63	6-Methyl- -6-deoxymorphine (otherwise known as Methyldesorphine) and its salts
64	N-(1-Methyl-2-piperidinoethyl)propionanilide (otherwise known as Phenampromide) and its salts
65	1-Methyl-4-phenylpiperidine-4-carboxylic acid esters and these salts

66	N-[2-(Methylphenethylamino)propyl]propionanilide (otherwise known as Diampromide) and its salts
67	[(3-Methyl-4-morpholino-2,2-diphenyl)butyryl]pyrrolidine and its salts
68	3-Methyl-4-morpholino-2,2-diphenylbutanoic acid (otherwise known as Moramide Intermediate) and its salts
69	3-Methoxy-N-methylmorphinan (excluding of dextrorotatory) and its salts
70	Morphine and its salts
71	Morphine-N-oxide and other pentavalent nitrogen morphines and these derivatives
72	1-(2-Morpholinoethyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise known as Morpheridine) and its salts
73	6-Morpholino-4,4-diphenyl-3-heptanone (otherwise known as Phenadoxone) and its salts
74	4-Morpholino-2,2-diphenylbutyric acid ethyl ester (otherwise known as Dioxaphetyl butyrate) and its salts
75	Substances with an veruse risk and a toxic effect similar to the substances shown in above numbers, designated by a government ordinance
76	Substances containing any one of the substances shown in the above numbers except for opium. The following substances are excluded.  a) Substances containing less than 10/1000 of codeine, dihydorocodeine or these salts, but not containing the substances other than these shown in above each number b) Plants (including their parts) other than those for the ingredients of narcotics
<b>2. Opium</b>	
<b>3. Poppy straw</b>	
<b>4. Plants for ingredients of narcotics</b>	
1	Erythroxyton coca Lam. (Japanese Koka)
2	Erythroxyllum novogranatense (Morris) Hieron.
3	Papaver bracteatum Lindl. (Japanese Hakamaonigeshi)
4	Other plants designated by a government ordinance

**Table 6. Psychoactive drugs (Narcotics and Psychoactive Drugs Control Law)**

1	5-Ethyl-5-phenylbarbituric acid (otherwise known as Phenobarbital) and its salts
2	5-Ethyl-5-(1-methylbutyl)barbituric acid (otherwise known as Pentbarbital) and its salts
3	7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one (otherwise known as Diazepam) and its salts
4	10-Chloro-2,3,7,11b-tetrahydro-2-methyl-11b-phenyloxazoro[3,2-d][1.4]-benzodiazepin-6(5H)-one (otherwise known as Oxazolam) and its salts
5	5-(2-Chlorophenyl)-7-ethyl-1,3-dihydro-1-methyl-2H-thieno[2,3-e]-1,4-diazepin-2-one (otherwise known as Clotiazepam) and its salts
6	7-Chloro-2-methylamino-5-phenyl-3H-1,4-benzoazepin-4-oxide (otherwise known as Chlordiazepoxide) and its salts
7	5,5-Diethyl-barbituric acid (otherwise known as Barbital) and its salts
8	1,3-Dihydro-7-nitro-5-phenyl-2H-1,4-benzodiazepin-2-one (otherwise known as Nitrazepam) and its salts
9	2-Phenyl-2-(2-piperidyl)acetic acid methyl ester (otherwise known as Methylphenidate) and its salts

10	1,2,3,4,5,6-Hexahydro-6,11-dimethyl-3-(3-methyl-2-butenyl)-2,6-methano-3-benzazocin-8-ol (otherwise known as Pentazocine) and its salts
11	Substances with an overuse risk and a toxic effect similar to the substances shown in above each number, designated by a government ordinance
12	Any preparation containing any one of the above substances

**Table 7. Stimulants and Ingredients of Stimulants (Stimulants Control Law)**

<b>Stimulants</b>	
1	Phenylaminopropane, phenylmethylaminopropane and their salts
2	Substances with stimulants effect
3	Substance containing any one of the above substances
<b>Ingredients of Stimulants</b>	
1	1-Phenyl-2-methylaminopropanol-1 (Ephedrine), its salts, and substances containing any one of these substances
2	1-Phenyl-1-chloro-2-methylaminopropane (Chloroephedrine), its salts, and substances containing any one of these substances
3	1-Phenyl-2-dimethylaminopropanol-1 (Methylephedrine), its salts, and substances containing any one of these substances
4	1-Phenyl-1-chloro-2-methylaminopropane (Chloroephedrine), its salts, and substances containing any one of these substances
5	1-Phenyl-1-chloro-2-dimethylaminopropane (Chloromethylephedrine), its salts, and substances containing any one of these substances
6	Phenylacetic acid, its salts, and substances containing any one of these substances
7	Phenylacetonitrile and substances containing this
8	Phenylacetone and substances containing this
9	N, -Dimethyl-N-2-propynylphenethylamine (Selegiline), its salts, and substances containing any one of these substances
10	Erythro-2-amino-1-phenylpropane-1-ol (Norephedrine), its salts, and substances containing any one of these substances
Substances containing less than 10% of three substances (Nos. 1, 3, and 6) and substances containing less than 50% of a substance (No 10) are ruled out from the ingredients of stimulants.	

**Table 8. Hazardous Substances**

(Fire Services Law)

Type	Properties	Substance names
Type 1	Oxidizing solid substances	1 Chlorates
		2 Perchlorates
		3 Inorganic peroxides
		4 Chlorites
		5 Bromates
		6 Nitrates
		7 Iodates
		8 Permanganates
		9 Dichromates
		10 Any substance designated by a separate ordinance (Periodates, Periodic acid, Oxides of chromium, lead and iodine, Nitrites, Hypochlorites, Chlorinated isocyanuric acid, Peroxodisulfates, and Peroxoborates)
		11 Substances including any of above items
Type 2	Combustible solid substances	1 Phosphorus sulfide
		2 Red phosphorus
		3 Sulfur
		4 Iron powder
		5 Metal powder
		6 Magnesium
		7 Any substance designated by a separate ordinance
		8 Substances including any of above items
		9 Flammable solids
Type 3	Substances ignitable spontaneously, or reactive with water.	1 Potassium
		2 Sodium
		3 Alkylaluminums
		4 Alkylolithiums
		5 Yellow phosphorus
		6 Alkaline metals (excluding potassium and sodium), and alkaline earth metals
		7 Organometallic compounds (excluding alkylaluminum and alkylolithium)
		8 Metal hydrides
		9 Metal phosphides
		10 Calcium carbide or Aluminum carbide

		11 Any substance designated by a separate ordinance (Chlorinated silicon compounds)
		12 Substances including any of above items
Type 4	Flammable liquid substances	1 Special flammables
		2 Petroleum Class 1
		3 Alcohols
		4 Petroleum Class 2
		5 Petroleum Class 3
		6 Petroleum Class 4
		7 Animal & vegetable oils
Type 5	Self-reactive substances	1 Organic peroxides
		2 Nitric esters
		3 Nitro compounds
		4 Nitroso compounds
		5 Azo compounds
		6 Diazo compounds
		7 Hydrazine derivatives
		8 Any substance designated by a separate ordinance (Metal azides, Guanidinium nitrate)
		9 Substances including any of above items
Type 6	Oxidizing liquid substances	1 Perchloric acid
		2 Hydrogen peroxide
		3 Nitric acid
		4 Any substance designated by a separate ordinance (Halogen-halogen compounds)
		5 Substances including any of above items



**Table 9. Gases with Special Components**

Note: Substances indicated by an asterisk are special high-pressure gases.

Group	Examples
Silicon compounds	Monosilane ( $\text{SiH}_4$ )*, Trichlorosilane ( $\text{SiHCl}_3$ ), Silicon tetrafluoride ( $\text{SiF}_4$ ), Dichlorosilane ( $\text{SiH}_2\text{Cl}_2$ ), Silicon tetrachloride ( $\text{SiCl}_4$ ), Disilane ( $\text{Si}_2\text{H}_6$ )*
Arsenic compounds	Arsine ( $\text{AsH}_3$ )*, Arsenic(V) fluoride ( $\text{AsF}_5$ ), Arsenic(V) chloride ( $\text{AsCl}_5$ ), Arsenic(III) fluoride ( $\text{AsF}_3$ ), Arsenic(III) chloride ( $\text{AsCl}_3$ )
Phosphorus compounds	Phosphine ( $\text{PH}_3$ )*, Phosphorus(V) fluoride ( $\text{PF}_5$ ), Phosphorus(V) chloride ( $\text{PCl}_5$ ), Phosphorus(III) fluoride ( $\text{PF}_3$ ), Phosphorus(III) chloride ( $\text{PCl}_3$ ), Phosphorus oxychloride ( $\text{POCl}_3$ )
Boron compounds	Diborane ( $\text{B}_2\text{H}_6$ )*, Boron trichloride ( $\text{BCl}_3$ ), Boron trifluoride ( $\text{BF}_3$ ), Boron tribromide ( $\text{BBr}_3$ )
Alkyl metals	Trialkylgallium ( $\text{GaR}_3$ ), Trialkylindium ( $\text{InR}_3$ )
Metal hydrides	Hydrogen selenide ( $\text{H}_2\text{Se}$ )*, Hydrogen telluride ( $\text{H}_2\text{Te}$ ), Tin hydride ( $\text{SnH}_4$ ), Monogermane ( $\text{GeH}_4$ )*, Stibine ( $\text{SbH}_3$ )
Halogenides	Nitrogen trifluoride ( $\text{NF}_3$ ), Tungsten(VI) fluoride ( $\text{WF}_6$ ), Germanium tetrachloride ( $\text{GeCl}_4$ ), Antimony(V) chloride ( $\text{SbCl}_5$ ), Molybdenum(V) chloride ( $\text{MoCl}_5$ ), Fluorine ( $\text{F}_2$ ), Sulfur tetrafluoride ( $\text{SF}_4$ ), Molybdenum(VI) fluoride ( $\text{MoF}_6$ ), Tin(IV) chloride ( $\text{SnCl}_4$ ), Tungsten(VI) chloride ( $\text{WCl}_6$ ), Hydrogen fluoride ( $\text{HF}$ )
Mixtures of the above gases	