Safety Manual

Tables 1-9

Contents

- Table 1. Organic Solvents
- Table 2. Specified Chemical Substances
- Table 3. Poisonous Substances
 - Attached Table 3: Specified poisonous substances
- Table 4. Deleterious Substances
- Table 5. Narcotics (Narcotics and Psycoactive Drugs Control Law)
- Table 6. Psycoactive drugs (Narcotics and Psycoactive Drugs Control Law)
- Table 7. Stimulants and Ingredients of Stimulants (Stimulants Control Law)
- Table 8. Hazardous Substances
- Table 9. Gases with Special Component

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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.

Class 1 Organic Solvents (7 substances)		
(Halogenated hydrocarbons)		
1	Chloroform	
2	Carbon tetrachloride	
3	1,2-Dichloroethane	
4	1,2-Dichloroethylene	
5	Trichloroethylene	
6	1,1,2,2-Tetrachloroethane	
(Sulfid	es)	
7	Carbon disulfide	
Class	2 Organic Solvents (40 substances)	
	ocarbons)	
8	n-Hexane	
9	Toluene	
10	Xylene	
11	Styrene	
(Halog	enated hydrocarbons)	
12	Dichloromethane (otherwise known as Methylene chloride)	
13	1,1,1-Trichloroethane	
14	Tetrachloroethylene (otherwise known as Perchloroethylene)	
15	Chlorobenzene	
16	o-Dichlorobenzene	
(Alcoh	ols)	
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	

(Ketones)			
25			
26	Ethyl methyl ketone		
27	Butyl methyl ketone		
28	Isobutyl methyl ketone		
29	Cyclohexanone		
30	Methylcyclohexanone		
30	Wettryleyeronexanone		
(Ethers)			
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		
(Esters)			
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)		
(Others)			
45	Cresol		
46	N,N-Dimethylformamide		
47	Tetrahydrofuran		
Class 3 (Organic Solvents (7 substances)		
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.

Type 1 Substances (7 substances)

Polychlorinated biphenyl (1 w/w%)

Dichlorobenzidine and its salts* (1 w/w%)

 α -Naphthylamine and its salts* (1 w/w%)

o-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%)

Type 2 Substances (37 substances)

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%)

 β -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	O-Ethyl O-(p-nitrophenyl) phenylphosphonothioate (otherwise known as EPN)		
2	Yellow phosphorus		
3	1,3,4,5,6,7.8.8-Octachloro-1,3,3a,4,7.7a-hexahydro-4,7-methanoisobenzofuran		
4	Octamethylpyrophosphoramide (otherwise known as Schradan)*		
5	Curare		
6	Tetraalkyllead *		
7	Hydrogen cyanide		
8	Sodium cyanide		
9	O,O-Diethyl O-(p-nitrophenyl) thiophosphate (otherwise known as Parathion)*		
10	Dinitrocresol		
11	2,4-Dinitro-6-(1-methylpropyl)-4,6-dinitrophenol		
12	S-(2-Ethylthioethyl) O,O-dimethyl thiophosphate		
	(otherwise known as Methyldimeton)*		
13	2-Chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl phosphate *		
14	O,O-Dimethyl O-(p-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

A personnele using, receiving (buying), or possessing the specified poisonous substances without a researcher license for the specified poisonous substances is punished by Poisonous and Deleterious Substances Control Law.

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

In 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	O,O-Diethyl O-(p-nitrophenyl) thiophosphate
4	S-(2-Ethylthioethyl) O,O-dimethyl thiophosphate
5	2-Chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl phosphate
6	O,O-Dimethyl O-(p-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 the specified poisonous subsances.

1	Any preparation containing octamethylpyrophosphoramide
2	Any preparation containing tetraalkyllead
3	Any preparation containing O, O -diethyl O -(p -nitrophenyl) thiophosphate
4	Any preparation containing S -(2-ethylthioethyl) O , O -dimethyl thiophosphate
5	Any preparation containing 2-chloro-2-diethylcarbamoyl-1-methylethenyl dimethyl
	phosphate
6	Any preparation containing O , O -dimethyl O -(p -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)

È	ated by Poisonous and Deleterious Substances Control Law)			
1	Acrylonitrile			
2	Acrolein			
3	Aniline			
4	Ammonia			
5	O,O-Diethyl O-(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				
23	Sodium cyanate S (4 Chlorophopylthiomathyl) O O diethyl dithiophophoto			
	S-(4-Chlorophenylthiomethyl) O,O-diethyl dithiophosphate			
24 25	O-(2,4-Dichlorophenyl) O,O-diethyl thiophosphate			
25 26	S-(2,5-Dichlorophenylthiomethyl) O,O-diethyl dithiophosphate			
	Carbon tetrachloride			
27	Cycloheximide			
28	Dichloroacetic acid			
29	1,4-Dichlorobutyne			
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	S-(2-Ethylsulfinyl-1-methylethyl) O,O-dimethyl dithiophosphate			
39	S-(2-Ethylthioethyl) O,O-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	O,O-Dimethyl S-phthalimidomethyl dithiophosphate			
44	O,O-Dimethyl S-(N-methylcarbamoylethylthioethyl) thiophosphate			
45	O,O-Dimethyl S-(N-methylcarbamoylmethyl) dithiophosphate (otherwise known as			
1	Dimethoate)			
46	O,O-Dimethyl O-(3-methyl-4-methylthiophenyl) thiophosphate			
47	Dimethyl sulfate			

48	Dichromic acid	
48		
	Oxalic acid	
50	Bromine Nitric gold	
51	Nitric acid	
52	Thallium nitrate	
53	Potassium hydroxide	
54 55	Sodium hydroxide	
55	Sulfonal	
56 57	O,O,O',O'-Tetraethyl S,S'-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	p-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-	
l	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-	
1	dimethanonaphthalene (otherwise known as Aldrin)	
78 7 8	β -Naphthol	
79	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydo-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 N-methylcarbamate	
86	Monochloroacetic acid	
87	Hydrogen iodide	
88	Iodine	
89	Sulfuric acid	
90	Thallium sulfate	
91	Zinc phosphide	
92	Ethyl thiocyanoacetate	
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 Psycoactive Drugs Control Law)

1 Nar	cotics and Home Narcotics (No. 76, a)
1	3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise as Acetylmethadol) and its
2	salts α -3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise as α -Acetylmethadol) and
2	its salts
3	β -3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise as β -Acetylmethadol) and
3	its salts
4	α -3-Acetoxy-6-dimethylamino-4,4-diphenylheptane (otherwise as α -Acetylmethadol) and
	its salts
5	1-[2-(4-Aminophenyl)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise as
	Anileridine) and its salts
6	N-Allylnormorphine (otherwise as Nalorphine) and its salts
7	3-Allyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as Allylprodine) and its
	salts
8	Ecgonin and its salts
9	3-(N-Ethyl-N-methylamino)-1,1-di(2-thienyl)-1-butene (otherwise as Ethylmethyl-
10	thiambutene) and its salts
10	α -3-Ethyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as α -Meprodine) and its salts
11	β -3-Ethyl-1-methyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as β -Meprodine) and
11	its salts
12	2-(4-Chlorobenzyl)-1-(diethylamino)ethyl-5-nitrobenzimidazole (otherwise 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 as Heroin) and other morphine esters and these salts
17	1-(3-Cyano-3,3-diphenylpropyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester
10	(otherwise as Diphenoxylate) and its salts
18	4-Cyano-2-dimethylamino-4,4-diphenylbutane (otherwise as Methadone Intermediate) and its salts
19	4-Cyano-1-methyl-4-phenylpiperidine (otherwise as Pethidine Intermediate A) and its salts
20	1-(Diethylamino)ethyl-2-(4-ethoxybenzyl-5-nitrobenzimidazole (otherwise as
20	Etonitazene) and its salts
21	3-Diethylamino-1,1-di(2-thienyl)-1-butene (otherwise as Diethylthiambutene) and its salts
22	Dihydrocodeinone (otherwise as Hydrocodone) and its salts
23	Dihydrocodeine and its esters and these salts
24	Dihydrodeoxymorphine (otherwise as Desomorphine) and its salts
25	Dihydrohydroxycodeinone (otherwise as Oxycodone) and its esters and these salts
26	Dihydrohydroxymorphinone (otherwise as Oxymorphone) and its salts
27	Dihydromorphine and its esters and these salts
28	Dihydromorphinone (otherwise as Hydromorphone) and its esters and these salts
29 30	4,4-Diphenyl-6-piperidino-3-heptanone (otherwise as Dipipanone) and its salts
30	(2-Dimethylamino)ethyl-1-ethoxy-1,1-diphenylacetate (otherwise as Dimenoxadol) and its salts
31	3-Dimethylamino-1,1-di(2-thienyl)-1-butene (otherwise as Desomorphine) and its salts
32	6-Dimethylamino-4,4-diphenyl-3-hexanone (otherwise as Normethadone) and its salts
33	6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise as Dimepheptanol) and its salts
34	α -6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise as α -Methadol) and its salts
35	β-6-Dimethylamino-4,4-diphenyl-3-heptanol (otherwise as β-Methadol) and its salts

36	6-Dimethylamino-4,4-diphenyl-3-heptanone (otherwise as Methadone) and its salts		
37	4-Dimethylamino-3-methyl-1,2-diphenyl-2-(propionyloxy)butane (otherwise as		
	Propoxyphene) and its salts		
38	6-Dimethylamino-5-methyl-4,4-diphenyl-3-hexanone (otherwise as Isomethadone) and it		
	salts		
39	1,3-Dimethyl-4-phenyl-4-(propionyloxy)azacycloheptane (otherwise as Proheptazine) and		
	its salts		
40	α -1,3-Dimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as α -Prodine) and its		
	salts		
41	β -1,3-Dimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as β -Prodine) and its		
	salts		
42	Thebaine and its salts		
43	1,2,5-Trimethyl-4-phenyl-4-(propionyloxy)piperidine (otherwise as Trimeperidine) and its		
	salts		
44	6-Nicotinylcodeine (otherwise as Nicocodine) and its salts		
45	Normorphine (otherwise as Demethylmorphine) and its esters and these salts		
46	1-[2-(2-Hydroxyethoxy)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester		
	(otherwise as Ethoxeridine) and its salts		
47	14-Hydroxydihydromorphine (otherwise as Hydromorphinol) 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 as Phenoperidine) and its salts		
50	4-(3-hydroxyphenyl)-1-methyl-4-piperidylethylketone (otherwise as Ketobemidone) and		
	its salts		
51	4-(3-Hydroxyphenyl)-1-methylpiperidine-4-carboxylic acid ethyl ester (otherwise as		
	Hydroxypethidine) and its salts		
52	3-Hydroxy-N-phenethylmorphinan (otherwise 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 as Furethidine) and its salts		
56	4-Phenylpiperidine-4-carboxylic acid ethyl ester (otherwise as Pethidine Intermediate B)		
	and its salts		
57	4-Phenyl-1-(3-phenylaminopropyl)piperidine-4-carboxylic acid ethyl ester (otherwise as		
7 0	Piminodine) and its salts		
58	1,2,3,4,5,6-Hexahydro-8-hydroxy-6,11-dimethyl-3-phenethyl-2,6-methano-3-benzazocine		
70	(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		
<i>c</i> 0	as Metazocine) and its salts		
60	1-[2-(Benzyloxy)ethyl]-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise as		
<i>c</i> 1	Benethidine) and its salts		
61 62	6-Methyldihydromorphine (otherwise as Methyldihydromorphine) and its salts		
	Methyldihydromorphinone (otherwise as Metopon) and its esters and these salts		
63	6-Methyl-Δ-6-deoxymorphine (otherwise as Methyldesorphine) and its salts		
64 65	N-(1-Methyl-2-piperidinoethyl)propionanilide (otherwise as Phenampromide) and its salts		
65 66	1-Methyl-4-phenylpiperidine-4-carboxylic acid esters and these salts N-[2-(Methylphenethylamino)propyl]propionanilide (otherwise as Diampromide) and its		
00	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
67	salts [(2 Mathyl 4 mamhalina 2 2 dinhanyl)hutymyllnymalidina and its salts		
67 68	[(3-Methyl-4-morpholino-2,2-diphenyl)butyryl]pyrrolidine and its salts		
UO	3-Methyl-4-morpholino-2,2-diphenylbutyric acid (otherwise as Moramide Intermediate)		
69	and its salts 3-Methoxy-N-methylmorphinan (excluding of dextrorotatory) and its salts		
70	Morphine and its salts		
70	Morphine-N-oxide and other pentavalent nitrogen morphines and these derivatives		
′ 1	10		

1-(2-Morpholinoethyl)-4-phenylpiperidine-4-carboxylic acid ethyl ester (otherwise as 72 Morpheridine) and its salts 73 6-Morpholino-4,4-diphenyl-3-heptanone (otherwise as Phenadoxone) and its salts 74 4-Morpholino-2,2-diphenylbutyric acid ethyl ester (otherwise as Dioxaphetyl butyrate) and its salts 75 Substances with an veruse risk and a toxic effect similar to the substances shown in above each number, designated by a government ordinance 76 Substances contsaining any one of the substances shown in above each number except for optium. 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 its parts) other than those for the igredients of narcotics 2. Optium 3. Poppy straw 4. Plants for igredients of narcotics 1 Erythroxylon coca Lam. (Japanese Koka) 2 Erythroxylum novogranatense (Morris) Hieron.

Table 6. Psycoactive drugs (Narcotics and Psycoactive Drugs Control Law)

Papaver bracteatum Lindl. (Japanese Hakamaonigeshi)

Other plants designated by a government ordinance

3

4

1	5-Ethyl-5-phenylbarbituric acid (otherwise as Phenobarbital) and its salts	
2	5-Ethyl-5-(1-methylbutyl)barbituric acid (otherwise as Pentbarbital) and its salts	
3	7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one (otherwise	
	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 (otherwis 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 as Clotiazepam) and its salts	
6	7-Chloro-2-methylamino-5-phenyl-3H-1,4-benzoazepin-4-oxide (otherwise	
	Chlordiazepoxide) and its salts	
7	5,5-Diethyl-barbituric acid (otherwise as Barbital) and its salts	
8	1,3-Dihydro-7-nitro-5-phenyl-2H-1,4-benzodiazepin-2-one (otherwise as	
	Nitrazepam) and its salts	
9	2-Phenyl-2-(2-piperidyl)acetic acid methyl ester (otherwise 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 as Pentazocine) and its salts	
11	Substances with an veruse 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)

Stimula	Stimulants		
1	Phenylaminopropane, phenylmethylaminopropane and their salts		
2	Substances with stimulants effect		
3	Substance containing any one of the above substances		
Ingredi	ents of Stimulants		
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,α-Dimethyl-N-2-propynylphenethylamine (Selegiline), its salts, and substances containing any one of these substances		
10	Erythro-2-amino-1-phenylpropane-1-ol (Norephedrne), 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
	reactive with water.	2 Sodium
		3 Alkylaluminums
		4 Alkyllithiums
		5 Yellow phosphorus
		6 Alkaline metals (excluding potassium and sodium), and alkaline earth metals
		7 Organometallic compounds (excluding alkylaluminum and alkyllithium)
		8 Metal hydrides
		9 Metal phosphides
		10 Calcium carbide or Aluminum carbide11 Any substance designated by a separate
		ordinance
		(Chlorinated silicon compounds) 12 Substances including any of above items
True a 4	Elamontal liquid substances	
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 (SiH ₄)*, Trichlorosilane (SiHCl ₃), Silicon tetrafluoride (SiF ₄), Dichlorosilane (SiH ₂ Cl ₂), Silicon tetrachloride (SiCl ₄), Disilane (Si ₂ H ₆)*
Arsenic compounds	Arsine (AsH ₃)*, Arsenic(V) fluoride (AsF ₅), Arsenic(V) chloride (AsCl ₅), Arsenic(III) fluoride (AsF ₃), Arsenic(III) chloride (AsCl ₃)
Phosphorus compounds	Phosphine (PH ₃)*, Phosphorus(V) fluoride (PF ₅), Phosphorus(V) chloride (PCl ₅), Phosphorus(III) fluoride (PF ₃), Phosphorus(III) chloride (PCl ₃), Phosphorus oxychloride (POCl ₃)
Boron compounds	Diborane (B ₂ H ₆)*, Boron trichloride (BCl ₃), Boron trifluoride (BF ₃), Boron tribromide (BBr ₃)
Alkyl metals	Trialkylgallium (GaR ₃), Trialkylindium (InR ₃)
Metal hydrides	Hydrogen selenide (H ₂ Se)*, Hydrogen telluride (H ₂ Te), Tin hydride (SnH ₄), Monogermane (GeH ₄)*, Stibine (SbH ₃)

Halogenides	Nitrogen trifluoride (NF ₃), Tungsten(VI) fluoride (WF ₆), Germanium tetrachloride (GeCl ₄), Antimony(V) chloride (SbCl ₅), Molybdenum(V) chloride (MoCl ₅), Fluorine (F ₂), Sulfur tetrafluoride (SF ₄), Molybdenum(VI) fluoride (MoF ₆), Tin(IV) chloride (SnCl ₄), Tungsten(VI) chloride (WCl ₆), Hydrogen fluoride (HF)
Mixtures of the above gases	