

Notification of Ministry of Industry
Subject: List of hazardous substances
B.E. 2556 (2013)

By the virtue of section 5 paragraph two and section 18 paragraph two of the Hazardous Substance Act B.E. 2535 (1992) which contains some provisions concerning the limitation of the people rights and liberties that is permissible by the provisions of section 29 together with section 32, section 33, section 41, section 43 and section 45 of the Constitution of the Kingdom of Thailand, the Minister of Industry, with the opinions of the Committee on Hazardous substance, hereby issues the ministerial notification as follows:

Article 1 The following Notifications of Ministry of Industry shall be repealed:

- (1) Notification of Ministry of Industry on List of Hazardous Substances B.E. 2538, dated 17 February B.E. 2538 (1995)
- (2) Notification of Ministry of Industry on List of Hazardous Substances (No.2) B.E. 2543, dated 20 March B.E. 2543 (2000)
- (3) Notification of Ministry of Industry on List of Hazardous Substances (No. 3) B.E. 2543, dated 26 May B.E. 2543 (2000)
- (4) Notification of Ministry of Industry on List of Hazardous Substances (No. 4) B.E. 2544, dated 31 October B.E. 2544 (2001)
- (5) Notification of Ministry of Industry on List of Hazardous Substances (No. 5) B.E. 2546, dated 10 April B.E. 2546 (2002)
- (6) Notification of Ministry of Industry on List of Hazardous Substances (No. 3) B.E. 2548, dated 21 November B.E. 2548 (2005)
- (7) Notification of Ministry of Industry on List of Hazardous Substances (No. 4) B.E. 2549, dated 26 January B.E. 2549 (2006)
- (8) Notification of Ministry of Industry on List of Hazardous Substances (No. 5) B.E. 2549, dated 27 March B.E. 2549 (2006)
- (9) Notification of Ministry of Industry on List of Hazardous Substances (No. 6) B.E. 2552, dated 3 February B.E. 2552 (2009)
- (10) Notification of Ministry of Industry on List of Hazardous Substances (No. 7) B.E. 2553, dated 7 September B.E. 2553 (2010)
- (11) Notification of Ministry of Industry on List of Hazardous Substances (No. 8) B.E. 2555, dated 2 October B.E. 2555 (2012)

Article 2 Hazardous substances or substances named otherwise having the same chemical structures and qualifications prescribed in the List of Hazardous Substances annexed to this Notification shall be designated as hazardous substance, regardless of their concentrations or objectives of use, except that the specific concentrations or conditions are prescribed.

Article 3 Hazardous substances prescribed in Article 2 shall be classified to Hazardous Substance Type 1, 2, 3 and 4.

Article 4 The following authorities shall be responsible for control of hazardous substance to be in compliance with the Hazardous Substance Act B.E. 2535 (1992):

(1) Department of Agriculture shall be responsible for control of hazardous substances in List 1, annexed to this Notification.

(2) Department of Fisheries shall be responsible for control of hazardous substances in List 2, annexed to this Notification.

(3) Department of Livestock Development shall be responsible for control of hazardous substances in List 3, annexed to this Notification.

(4) Food and Drug Administration shall be responsible for control of hazardous substances in List 4, annexed to this Notification.

(5) Department of Industrial Works shall be responsible for control of hazardous substances in List 5, annexed to this Notification.

(6) Department of Energy Business shall be responsible for control of hazardous substances in List 6, annexed to this Notification.

Article 5 The producer, importer, exporter, or possessor of the hazardous substance prescribed in Article 2 having been in business before the authorization of this Notification shall notify their operation relating to type 2 hazardous substance, or shall submit an application for a permit for type 3 hazardous substance within 30 days since the effective date of this Notification. Any hazardous substance which registration is required, it must be done within the same time period.

Article 6 Any registration certificate, notifying evidence, permit, and performance regarding such hazardous substance received or done before the authorization of this Notification shall still be effective. However, international treaty and commitment shall be regarded as well.

This shall, thus, enter into force on the day following the date of its publication in the Government Gazette.

Announced on the 28 August B.E. 2556 (2013)

Mr. Prasert Boonsinsuk
Minister of Industry

(Published in the Government Gazette, Volume 130, special part 125d, dated 27 September B.E. 2556 (2013))

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 1: Responsible by Department of Agriculture

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	2,4,5-TCP or 2,4,5-trichlorophenol	95-95-4	4	
2	2,4,5-TP or (\pm)-2-(2,4,5-trichlorophenoxy) propionic acid	93-72-1	4	
3	2,4-D or (2,4-dichlorophenoxy) acetic acid	94-75-7	3	
4	2,4-D-sodium or sodium (2,4-dichlorophenoxy) acetate	2702-72-9	3	
5	2,4-D-dimethylammonium or dimethylammonium (2,4-dichlorophenoxy) acetate	2008-39-1	3	
6	2,4-D-diolamine or bis (2-hydroxyethyl) ammonium (2,4-dichlorophenoxy) acetate	5742-19-8	3	
7	2,4-D-triisopropylammonium	34075-45-1	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
8	2,4-D-trolamine or tris (2-hydroxyethyl) ammonium (2,4-dichlorophenoxy) acetate	2569-01-9	3	
9	2,4-D-butyl or butyl (2,4-dichlorophenoxy) acetate	94-80-4	3	
10	2,4-D-butotyl or 2-butoxyethyl (2,4-dichlorophenoxy) acetate	1929-73-3	3	
11	2,4-D-polyethyleneglycol	53404-02-7	3	
12	2,4-D-olamine	3599-58-4	3	
13	2,4-D-isoctyl or octyl (2,4-dichlorophenoxy) acetate (mixed octyl isomers)	25168-26-7	3	
14	2,4-D-isobutyl or 2-methypropyl (2,4-dichlorophenoxy) acetate	1713-15-1	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
15	2,4-D-isopropyl or isopropyl (2,4-dichlorophenoxy) acetate	94-11-1	3	
16	4-nitrodiphenyl	92-93-3	4	
17	4-aminodiphenyl	92-67-1	4	
18	6-benzylaminopurine	1214-39-7	3	
19	2,4,5-trichlorophenoxy) acetic acid or 2,4,5-T	93-76-5	4	
20	(4-chloro-2-methylphenoxy) acetic acid or MCPA	94-74-6	3	
21	1-naphthylacetic acid or NAA	86-87-3	3	
22	4-(4-chloro-o-tolyloxy) butyric acid or MCPB	94-81-5	4	
23	Gibberellic acid	77-06-5	3	
24	Propionic acid	79-09-4	3	
25	Phosphonic acid	13598-36-2	3	Except the part on responsibility of Department of Industrial Works

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
26	Methylarsonic acid	124-58-3	3	
27	Indol-3-ylbutyric acid or IBA	133-32-4	3	
28	Indol-3-ylacetic acid or IAA	87-51-4	3	
29	Glufosinate (acid D-isomer)	35597-44-5	3	
30	Glufosinate (acid unstated stereochemistry)	51276-47-2	3	
31	Glufosinate (racemic acid)	53369-07-6	3	
32	Glufosinate-ammonium	77182-82-2	3	
33	Guazatine	108173-90-6	3	
34	Guazatine acetate	115044-19-4	3	
35	Glyphosate	1071-83-6	3	
36	Glyphosate-sesquisodium	70393-85-0	3	
37	Glyphosate-sodium	34494-03-6	3	
38	Glyphosate-diammonium	69254-40-6	3	
39	Glyphosate-trimesium	81591-81-3	3	
40	Glyphosate-potassium	70901-20-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
41	Glyphosate-monoethylammonium	114370-14-8	3	
42	Glyphosate-monoammonium	40465-66-5	3	
43	Glyphosate-isopropylammonium	38641-94-0	3	
44	Kresoxim-methyl	143390-89-0	3	
45	Chlorsulfuron	64902-72-3	3	
46	Chlordimeform	6164-98-3	4	
47	Chlordecone	143-50-0	4	Except the part on responsibility of Food and Drug Administration
48	Chlordane	57-74-9	4	Except the part on responsibility of Food and Drug Administration
49	Chlorthal	2136-79-0	3	
50	Chlorthal-dimethyl	1861-32-1	3	
51	Chlorthiophos	60238-56-4	4	Except the part on responsibility of Food and Drug Administration
52	Chlornitrofen or CNP	1836-77-7	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
53	Chlorpyrifos	2921-88-2	3	Except the part on responsibility of Food and Drug Administration and Department of Industrial Works
54	Chlorpyrifos-methyl	5598-13-0	3	Except the part on responsibility of Food and Drug Administration
55	Chlorfluazuron	71422-67-8	3	
56	Chlorfenapyr	122453-73-0	3	
57	Chlorfenvinphos (Z) + (E) isomers	470-90-6	3	Except the part on responsibility of Food and Drug Administration
58	Chlorfenvinphos (Z)-isomer	18708-87-7	3	
59	Chlorfenvinphos (E)-isomer	18708-86-6	3	
60	Chlormequat	7003-89-6	3	
61	Chlormequat chloride	999-81-5	3	
62	Chloraniformethan	20856-57-9	3	
63	Chloranil	118-75-2	3	Except the part on responsibility of Food and Drug Administration
64	Chlorimuron	99283-00-8	3	
65	Chlorimuron-ethyl	90982-32-4	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
66	Chlorothaloni	1897-45-6	3	
67	Chlorobenzilate	510-15-6	4	
68	Chloropicrin	76-06-2	3	Only when used in combination with methyl bromide as fumigant
69	Chlorophenol		4	
70	Clethodim	99129-21-2	3	
71	Quizalofop	76578-12-6	3	
72	Quizalofop-P-tefuryl	119738-06-6	3	
73	Quizalofop-P-ethyl	100646-51-3	3	
74	Quizalofop-ethyl	76578-14-8	3	
75	Quinclorac	84087-01-4	3	
76	Quintozene or PCNB	82-68-8	3	Except the part on responsibility of Food and Drug Administration
77	Quinalphos	13593-03-8	3	
78	Copper (II) sulphate (pentahydrate)	7758-99-8	3	Except the part on responsibility of Department of Industrial Works
79	Copper (II) sulphate (anhydrous)	7758-98-7	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
80	Copper (II) arsenate or copper arsenate hydroxide	16102-92-4	4	
81	Copper (II) hydroxide	20427-59-2	3	Except the part on responsibility of Department of Industrial Works
82	Copper sulfate (tribasic)	1333-22-8	3	
83	Copper oxychloride or copper (II) chloride oxide hydrate	1332-40-7	3	
84	Copper oxychloride or copper (II) chloride hydroxide	1332-65-6	3	
85	Copper ethylene diaminecomplex	13426-91-0	3	
86	Colchicine	64-86-8	2	Only when used for agricultural purpose
87	Kasugamycin	6980-18-3	3	
88	Kasugamycin hydrochloride hydrate	19408-46-9	3	
89	Cadusafos	95465-99-9	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
90	Cartap	15263-53-3	3	
91	Cartap monohydrochloride	15263-52-2	3	
92	Cartap hydrochloride	22042-59-7	3	
93	Carboxin	5234-68-4	3	
94	Carbon tetrachloride or tetrachloromethane	56-23-5	4	
95	Carbaryl	63-25-2	3	Except the part on responsibility of Food and Drug Administration
96	Carbendazim	10605-21-7	3	Except the part on responsibility of Department of Industrial Works
97	Carbendazim phosphate	52316-55-9	3	
98	Carbosulfan	55285-14-8	3	
99	Carbophenothion	786-19-6	3	
100	Carbofuran	1563-66-2	3	
101	Carpropamid	104030-54-8	3	
102	Carfentrazone-ethyl	128639-02-1	3	
103	Chinomethionat	2439-01-2	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
104	Cuprous oxide	1317-39-1	3	Except the part on responsibility of Department of Industrial Works
105	Chaetomium globosum	-	2	
106	Choetomium cupreum	-	2	
107	Coumatetralyl	5836-29-3	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
108	Coumaphos	56-72-4	3	Except the part on responsibility of Food and Drug Administration
109	Captafol	2425-06-1	4	Except the part on responsibility of Food and Drug Administration
110	Captan	133-06-2	3	
111	Calcium bis (hydrogen methylarsonate)	5902-95-4	3	
112	Calcium polysulfide	1344-81-6	3	
113	Calcium arsenate	7778-44-1	4	
114	Crotoxyphos	7700-17-6	3	Except the part on responsibility of Food and Drug Administration

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
115	Chromafenozide	143807-66-3	3	
116	Clothianidin	210880-92-5	3	
117	Clopyralid	1702-17-6	3	
118	Clopyralid-olamine	57754-85-5	3	
119	Clofentezine	74115-24-5	3	
120	Clomazone	81777-89-1	3	
121	Jodfenphos or iodofenfos	18181-70-9	3	Except the part on responsibility of Food and Drug Administration
122	Gentamicine sulfate	1405-41-0	3	
123	Sulprofos	35400-43-2	3	
124	Sulfentrazone	122836-35-5	3	
125	Sulfur	7704-34-9	3	Only fungicidal products having sulfur as a component
126	Sulfotep	3689-24-5	4	
127	Sarcocystis singaporensis	-	2	
128	Saponin	8047-15-2	2	
129	Safrole	94-59-7	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
130	Zinc phosphide	1314-84-7	3	Except the part on responsibility of Food and Drug Administration
131	Cinmethylin [exo(-)-isomer]	87819-60-1	3	
132	Cinmethylin [exo(+)-isomer]	87818-61-9	3	
133	Cinmethylin [exo(±)-isomer]	87818-31-3	3	
134	Cinosulfuron	94593-91-6	3	
135	Simazine	122-34-9	3	
136	Scilliroside	507-60-8	3	Except the part on responsibility of Food and Drug Administration
137	Zeta-cypermethrin	52315-07-8	3	
138	Sethoxydim or (±)-2-[1-(ethoxyimino) butyl]-5-[2-(ethylthio) propyl]-3-hydroxy-2-cyclohexen-1-one	74051-80-2	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
139	Sethoxydim or 2-[1-(ethoxyamino) butylidene]-5-[2-(ethylthio) propyl]-1,3-cyclohexanedione	71441-80-0	3	
140	Zineb	12122-67-7	3	Except the part on responsibility of Department of Industrial Works
141	Sodium 2,4-dinitrophenolate	51-28-5	3	
142	Sodium para-nitrophenolate	824-78-2	3	
143	Sodium ortho-nitrophenolate	824-39-5	3	
144	Sodium-5-nitroguaiacolate	67233-85-6	3	
145	Sodium chlorate	7775-09-9	4	
146	Sodium chlorate	7775-09-9	3	Only products having reaction-retarded chemical as prescribed by Ministry of Agriculture and Cooperation
147	Sodium arsenite	7784-46-5	4	
148	Sodium hydrogen methylarsonate or MSMA	2163-80-6	3	
149	Cyclosulfamuron	136849-15-5	3	
150	Cycloxydim	101205-02-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
151	Cycloxydim (tautomer)	99434-58-9	3	
152	Cycloate	1134-23-2	3	
153	Cycloheximide	66-81-9	4	Except the part on responsibility of Food and Drug Administration
154	Cyproconazol (2RS, 3RS; 2RS, 3SR)-isomers	94361-06-5	3	
155	Cyproconazole (2RS, 3SR)-isomers	94361-07-6	3	
156	Cyproconazole (unstated stereochemistry)	113096-99-4	3	
157	Cypermethrin	52315-07-8	3	
158	Cymoxanil	57966-95-7	3	
159	Cyanizine	21725-46-2	3	
160	Cyanamide	420-04-2	3	
161	Cyanophos	2636-26-2	3	Except the part on responsibility of Food and Drug Administration
162	Cyanofenphos	13067-93-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
163	Cyromazine	66215-27-8	3	Except the part on responsibility of Department of Livestock Development
164	Cyhalothrin	68085-85-8	3	
165	Cyhalofop-butyl	122008-85-9	3	
166	Cyhexatin	13121-70-5	4	
167	Dazomet	533-74-4	3	Except the part on responsibility of Department of Industrial Works
168	Daminozide	1596-84-5	4	
169	Dalapon	75-99-0	3	
170	Dalapon-sodium	127-20-8	3	
171	DDT or 1,1,1-trichloro-2,2-bis (chlorophenyl) ethane	8017-34-3	4	
172	DBCP or 1,2-dibromo-3-chloropropane	96-12-8	4	
173	Demeton	8065-48-3	4	
174	Demeton-S	126-75-0	3	
175	Demeton-O	298-03-3	3	
176	Demephion	8065-62-1	4	
177	Dieldrin	60-57-1	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
178	DNOC or 4,6-dinitro-o-cresol	534-52-1	4	
179	DSMA or disodium methylarsonate	144-21-8	3	
180	Decabromobiphenyl	13654-09-6	4	
181	Deltamethrin	52918-63-5	3	Except the part on responsibility of Department of Livestock Development
182	Dodine	2439-10-3	3	
183	Dodine (free base)	112-65-2	3	
184	Dodemorph	1593-77-7	3	
185	Dodemorph acetate	31717-87-0	3	
186	Dichlorprop (racemic acid)	7547-66-2	3	
187	Dichlorprop (unstated stereochemistry) or 2,4-DP or (RS-2)-(2,4-dichlorophenoxy) propionic acid	120-36-5	3	
188	Dichlorvos	62-73-7	3	Except the part on responsibility of Food and Drug Administration

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
189	Dichlorophen	97-23-4	3	Except the part on responsibility of Department of Industrial Works
190	Dicamba	1918-00-9	3	
191	Dicamba-sodium	1982-69-0	3	
192	Dicamba-dimethylammonium	2300-66-5	3	
193	Dicamba-potassium	10007-85-9	3	
194	Dicofol	115-32-2	3	Except the part on responsibility of Food and Drug Administration
195	Dicrotophos	141-66-2	3	Except the part on responsibility of Food and Drug Administration
196	Dicrotophos (E)-+(Z)-compounds	3735-78-2	3	
197	Dicrotophos the (Z)-analogue	18250-63-0	3	
198	Diclofop (unstated stereochemistry)	40843-25-2	3	
199	Diclofop-methyl (unstated stereochemistry)	51338-27-3	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
200	Diclofop-methyl (R)-isomer	71283-65-3	3	
201	Diclofop-methyl (S)-isomer	75021-72-6	3	
202	Dichlofenthion	97-17-6	3	
203	Dicloran	99-30-9	3	
204	Disulfoton	298-04-4	4	
205	Ditalimfos	5131-24-8	3	
206	Dithianon	3347-22-6	3	
207	Dithiopyr	97886-45-8	3	
208	Dinocap (single compound)	131-72-6	3	
209	Dinocap (mixed isomers but unstated stereochemistry)	39300-45-3	3	
210	Dinoseb	88-85-7	4	Except the part on responsibility of Food and Drug Administration
211	Dinoterb	1420-07-1	4	
212	Dinobuton	973-21-7	3	
213	Diniconazole	83657-24-3	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
214	Diniconazole (E)-isomers	76714-88-0	3	
215	Diniconazole-M	83657-18-5	3	
216	Diniconazole-M (E)-(S)-isomer	83657-19-6	3	
217	Dinitramine	29091-05-2	3	
218	Diflubenzuron	35367-38-5	3	Except the part on responsibility of Food and Drug Administration
219	Diflufenican	83164-33-4	3	
220	Diphacinone	82-66-6	3	Except the part on responsibility of Food and Drug Administration
221	Difethialone	104653-34-1	3	Except the part on responsibility of Department of Livestock Development
222	Diphenamid	957-51-7	3	
223	Difenoconazole (unstated stereochemistry)	119446-68-3	3	
224	Dimethametryn	22936-75-0	3	
225	Dimethenamid	87674-68-8	3	
226	Dimethomorph	110488-70-5	3	
227	Dimethoate	60-51-5	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
228	Dimethipin	55290-64-7	3	
229	Dimepiperate	61432-55-1	3	
230	Dimefox	115-26-4	4	
231	Dimefuron	34205-21-5	3	
232	Diuron	330-54-1	3	Except the part on responsibility of Department of Industrial Works
233	Dioxacarb	6988-21-2	3	Except the part on responsibility of Food and Drug Administration
234	Dioxathion	78-34-2	3	Except the part on responsibility of Food and Drug Administration
235	Dioxabenzofos (unstated stereochemistry) or salithion	3811-49-2	3	
236	Diazinon	333-41-5	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
237	Diafenthiuron	80060-09-9	3	
238	Dialifos	10311-84-9	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
239	Tetrachlorvinphos	22248-79-9	3	Except the part on responsibility of Food and Drug Administration
240	Tetrachlorvinphos (the analogous (E)-isomer	22350-76-1	3	
241	Tetrachlorvinphos [mixed (Z)-+(E)-isomers]	961-11-5	3	
242	Tetraconazole	112281-77-3	3	
243	Tetradifon	116-29-0	3	
244	Tetramethrin	7969-12-0	3	Except the part on responsibility Department of Livestock Development
245	Trichlorfon	52-68-6	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
246	Trichodema harzianum	-	2	
247	Triclopyr	55335-06-3	3	
248	Triclopyr-triethylammonium	57213-69-1	3	
249	Triclopyr-butotyl	64700-56-7	3	
250	Tricyclazole	41814-78-2	3	
251	Tridemorph	81412-43-3	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
252	Tridemorph 4-tridecyl-component	24602-86-6	3	
253	Trinexapac-ethyl	95266-40-3	3	
254	Tribenuron	106040-48-6	3	
255	Tribenuron-methyl	101200-48-0	3	
256	Trifloxystrobin	141517-21-7	3	
257	Triflumizole	68694-11-1 99387-89-0	3	
258	Triflumuron	64628-44-0	3	Except the part on responsibility Department of Livestock Development
259	Trifluralin	1582-09-8	3	Except the part on responsibility Department of Fisheries
260	Triforine	26644-46-2	3	
261	Triazophos	24017-47-8	3	
262	Triadimenol	55219-65-3	3	
263	Triadimefon	43121-43-3	3	
264	Tralomethrin (unstated stereochemistry)	66841-25-6	3	
265	Tris (2,3-dibromopropyl) phosphate	126-72-7	4	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
266	Toxaphene or camphechlor	8001-35-2	4	
267	Temephos	3383-96-8	3	Except the part on responsibility of Food and Drug Administration
268	TCMTB or 2-(thiocyanomethylthio) benzothiazole	21564-17-0	3	
269	TDE or DDD or 1,1-dichloro-2',2'-bis (4-chlorophenyl) ethane	72-54-8	4	
270	Tebuconazole	107534-96-3	3	
271	Tebuthiuron	34014-18-1	3	
272	Tebufenozide	112410-23-8	3	
273	Tebufenpyrad	119168-77-3	3	
274	TEPP or tetraethyl pyrophosphate	107-49-3	4	
275	Tepraloxymid	149979-41-9	3	
276	Teflubenzuron	83121-18-0	3	
277	Terbutryn	886-50-0	3	Except the part on responsibility of Department of Industrial Works

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
278	Terbutylazine	5915-41-3	3	
279	Tau-fluvalinate	102851-06-9	3	Except the part on responsibility of Department of Livestock Development
280	Thallium sulfate	7446-18-6	4	
281	Tolclofos-methyl	57018-04-9	3	
282	Tolfenpyrad	129558-76-5	3	
283	Thiram	137-26-8	3	
284	Thiacloprid	111988-49-9	3	
285	Thiabendazole	148-79-8	3	
286	Thiamethoxam	153719-23-4	3	Except the part on responsibility of Department of Livestock Development
287	Thiocyclam	31895-21-3	3	
288	Thiocyclam hydrogen oxalate	31895-22-4	3	
289	Thiodicarb	59669-26-0	3	
290	Thiobencarb	28249-77-6	3	
291	Thiofanox	39196-18-4	3	
292	Thiophanate	23564-06-9	3	
293	Thiophanate-methyl	23564-05-8	3	
294	Thiometon	640-15-3	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
295	Thiourea	62-56-6	3	
296	Naled	300-76-5	3	Except the part on responsibility of Food and Drug Administration
297	Nicosulfuron	111991-09-4	3	
298	Nicotine sulfate	65-30-5	3	
299	Niclosamide	50-65-7	3	
300	Niclosamide-olamine	1420-04-8	3	
301	Nuclear polyhedrosis virus or NPV	-	2	
302	Napropamide (unstated stereochemistry)	15299-99-7	3	
303	Napropamide (R)-(-)-isomer	41643-35-0	3	
304	Napropamide (S)-(+)-isomer	41643-36-1	3	
305	Naphthylamine	134-32-7	4	
306	Novaluron	116714-46-6	3	
307	Nitrofen	1836-75-5	4	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
308	Blasticidin-S	2079-00-7	3	
309	Bacillus subtilis	-	2	
310	Bacillus thuringiensis	68038-71-1	2	Except the part on responsibility of Food and Drug Administration
311	Butachlor	23184-66-9	3	
312	Butafenacil	134605-64-4	3	
313	Butocarboxim	34681-10-2	3	
314	Butylate	2008-41-5	3	
315	Buthiobate	51308-54-4	3	
316	Bis (chloromethyl) ether	542-88-1	4	
317	Bispyribac-sodium	125401-92-5	3	
318	BHC(benzene hexachloride) or HCH(hexachlorocyclohexane)	608-73-1	4	
319	Butralin	33629-47-9	3	
320	Buprofezin	69327-76-0	3	
321	Beauveria bassiana	-	2	
322	Beta-cypermethrin	65731-84-2	3	Except the part on responsibility of Department of Livestock Development

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
323	Beta-cyfluthrin	68359-37-5	3	
324	Beta-HCH or 1,3,5/2,4,6-hexachlorocyclohexane	319-85-7	4	
325	Beta-endosulfan	33213-65-9	3	
326	Benzoximate	29104-30-1	3	
327	Benzalkonium chloride	8001-54-5	3	Except the part on responsibility of Fisheries Department, Department of Industrial Works, and Food and Drug Administration, as surfactants
328	Bensultap	17606-31-4	3	
329	Bensulfuron	99283-01-9	3	
330	Bensulfuron-methyl	83055-99-6	3	
331	Benzidine	92-87-5	4	
332	Bensulide	741-58-2	3	
333	Bendiocarb	22781-23-3	3	Except the part on responsibility of Food and Drug Administration
334	Bentazone	25057-89-0	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
335	Benfuracarb	82560-54-1	3	
336	Benfuresate	68505-69-1	3	
337	Benalaxyl	71620-11-4	3	
338	Benomyl	17804-35-2	3	
339	Bacbicure	-	3	
340	Brodifacoum	56073-10-0	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
341	Bromacil	314-40-9	3	
342	Bromadiolone (unstated stereochemistry)	28772-56-7	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
343	Bromocyclen	1715-40-8	3	
344	Bromopropylate	18181-80-1	3	Except the part on responsibility of Department of Livestock Development
345	Bromophos	2104-96-3	4	Except the part on responsibility of Food and Drug Administration
346	Bromophos-ethyl	4824-78-6	4	Except the part on responsibility of Food and Drug Administration

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
347	Bitertanol (unstated stereochemistry)	55179-31-2	3	
348	Binapacryl	485-31-4	4	
349	Bifenox	42576-02-3	3	
350	Bifenthrin	82657-04-3	3	
351	Paris green	12002-03-8	4	Except the part on responsibility of Food and Drug Administration
352	Paraquat	4685-14-7	3	
353	Paraquat dichloride	1910-42-5	3	Except the part on responsibility of Department of Industrial Works and Food and Drug Administration
354	Paraquat dichloride[bis (methyl sulfate)]	2074-50-2	3	
355	Parathion	56-38-2	4	
356	Parathion-methyl	298-00-0	4	
357	Picloram	1918-02-1	3	
358	Picloram-potassium (1:1)	2545-60-0	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
359	Picloram-potassium (unstated composition)	11562-68-2	3	
360	Pindone	83-26-1	3	Except the part on responsibility of Food and Drug Administration
361	Pirimicarb	23103-98-2	3	
362	Pirimiphos-methyl	29232-93-7	3	Except the part on responsibility of Food and Drug Administration
363	Pebulate	1114-71-2	3	
364	Penconazole	66246-88-6	3	
365	Pencycuron	66063-05-6	3	
366	Pendimethalin	40487-42-1	3	
367	Pentachlorophenol	87-86-5	4	Except the part on responsibility of Department of Industrial Works and Food and Drug Administration
368	Pentachlorophenate sodium or pentachlorophenoxide sodium	131-52-2	4	
369	Pretilachlor	51218-49-6	3	
370	Perfluidone	37924-13-3	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
371	Permethrin	52645-53-1	3	Except the part on responsibility of Department of Industrial Works
372	Paclobutrazol (unstated stereochemistry)	76738-62-0	3	
373	Potassium chlorate	3811-04-9	3	Only in the product used for control plant growth and contained with inhibitor as prescribed by Ministry of Agriculture and Cooperative
374	Prochloraz	67747-09-5	3	
375	Procymidone	32809-16-8	3	
376	Prothoate	2275-18-5	4	
377	Prothiocarb	19622-08-3	3	
378	Prothiocarb hydrochloride	19622-19-6	3	
379	Prothiofos	34643-46-4	3	Except the part on responsibility of Food and Drug Administration
380	Propoxur	114-26-1	3	Except the part on responsibility of Food and Drug Administration
381	Propachlor	1918-16-7	3	
382	Propaquizafop	111479-05-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
383	Propanil	709-98-8	3	
384	Propamocarb	24579-73-5	3	
385	Propamocarb hydrochloride	25606-41-1	3	
386	Propargite	2312-35-8	3	
387	Propiconazole (unstated stereochemistry)	60207-90-1	3	
388	Propisochlor	86763-47-5	3	
389	Propineb (monomer)	12071-83-9	3	
390	Propineb (homopolymer)	9016-72-2	3	
391	Profoxydim	139001-49-3	3	
392	Profenofos	41198-08-7	3	
393	Promecarb	2631-37-0	3	Except the part on responsibility of Food and Drug Administration
394	Polychlorinated terphenyl or PCT	61788-33-8	4	
395	Polyoxin B	19396-06-6	3	
396	Piperonyl butoxide or piperonyl ether butoxide	51-03-6	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
397	Piperophos	24151-93-7	3	
398	Pyracarbolid	24691-76-7	3	
399	Pyraclofos (unstated stereochemistry)	77458-01-6	3	
400	Pyraclostrobin	175013-18-0	3	
401	Pyrazosulfuron	98389-04-9	3	
402	Pyrazosulfuron-ethyl	93697-74-6	3	
403	Pyrazophos	13457-18-6	3	
404	Pyridaben	96489-71-3	3	
405	Pyridaphenthion	119-12-0	3	
406	Pyridalyl	179101-81-6	3	
407	Pyridate	55512-33-9	3	
408	Pyrinuron or piriminil	53558-25-1	4	
409	Pyribenzoxim	168088-61-7	3	
410	Pyriproxyfen	95737-68-1	3	
411	Pyroquilon	57369-32-1	3	
412	Phthalide or fthalide	27355-22-2	3	
413	Flusilazole	85509-19-9	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
414	Flucythrinate (unstated stereochemistry)	70124-77-5	3	
415	Flutolanil	66332-96-5	3	
416	Flubendiamide	272451-65-7	3	
417	Flufenzine	162320-67-4	3	
418	Flufenoxuron	101463-69-8	3	
419	Flufenacet	142459-58-3	3	
420	Flumiclorac-pentyl	87546-18-7	3	
421	Flumioxazin	103361-09-7	3	In products used for preventing and destroying insects, pests, plant diseases, weeds, and plant growth regulator
422	Flumetralin	62924-70-3	3	
423	Flumethrin (unstated stereochemistry)	69770-45-2	3	Except the part on responsibility of Department of Livestock Development
424	Fluroxypyr	69377-81-7	3	
425	Fluroxypyr-meptyl	81406-37-3	3	
426	Fluvalinate (DL-isomer)	69409-94-5	3	
427	Fluoroacetate sodium	62-74-8	4	
428	Fluoroacetamide	640-19-7	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
429	Fluazifop (unstated stereochemistry)	69333-91-7	3	
430	Fluazifop-butyl (unstated stereochemistry)	69806-50-4	3	
431	Fluazifop-P-butyl	79241-46-6	3	
432	Fluomefuron	2164-17-2	3	
433	Phoxim	14816-18-3	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
434	Formetanate	22259-30-9	3	
435	Formetanate hydrochloride	23422-53-9	3	
436	Formothion	2540-82-1	3	
437	Folpet	133-07-3	3	
438	Phosphorus	7723-14-0	4	
439	Phosphamidon (Z)-isomer	23783-98-4	4	
440	Phosphamidon (E)+(Z)-isomers	13171-21-6	4	
441	Phosphamidon (E)-isomer	297-99-4	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
442	Phosmet	732-11-6	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
443	Fosetyl	15845-66-6	3	
444	Fosetyl-aluminium	39148-24-8	3	
445	Famoxadone	131807-57-3	3	
446	Fipronil	120068-37-3	3	
447	Fenoxycarb	72490-01-8	3	
448	Fenazaquin	120928-09-8	3	
449	Phenazine oxide or phenazine-5-oxide	304-81-4	3	
450	Fenamidone	161326-34-7	3	
451	Fenaminosulf	140-56-7	3	
452	Fenamiphos	22224-92-6	3	
453	Fenarimol (unstated stereochemistry)	60168-88-9	3	
454	Fenuron	101-42-8	3	Except the part on responsibility of Department of Industrial Works

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
455	Fenuron-TCA or 1,1-dimethyl-3-phenyluronium trichloroacetate	4482-55-7	3	
456	Fenoxaprop (unstated stereochemistry)	73519-55-8	3	
457	Fenoxaprop (racemate)	95617-09-7	3	
458	Fenoxaprop-P	113158-40-0	3	
459	Fenoxaprop-P-ethyl	71283-80-2	3	
460	Fenoxaprop-ethyl (unstated stereochemistry)	66441-23-4	3	
461	Fenoxaprop-ethyl (racemate)	82110-72-3	3	
462	Fenothiocarb	62850-32-2	3	
463	2-sec-butylphenyl methylcarbamate or BPMC	3766-81-2	3	
464	Fenoprop (unstated stereochemistry)	93-72-1	3	
465	Furothiocarb	65907-30-4	3	
466	Fenchlorphos	299-84-3	3	Except the part on responsibility of Food and Drug Administration

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
467	Fensulfothion	115-90-2	4	
468	Fentin	668-34-8	4	
469	Fentin acetate	900-95-8	3	Except the part on responsibility of Fisheries Department
470	Fentin hydroxide	76-87-9	3	
471	Fentrazamide	158237-07-1	3	
472	Phenthoate	2597-03-7	3	Except the part on responsibility of Food and Drug Administration
473	Fenthion	55-38-9	3	Except the part on responsibility of Food and Drug Administration
474	Fenbutatin oxide	13356-08-6	3	
475	Fenpiclonil	74738-17-3	3	
476	Fenpropathrin (unstated stereochemistry)	39515-41-8	3	
477	Fenpropathrin (racemate)	64257-84-7	3	
478	Fenpyroximate	134098-61-6	3	
479	Fenvalerate (unstated stereochemistry)	51630-58-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
480	Fenitrothion	122-14-5	3	Except the part on responsibility of Food and Drug Administration
481	Ferbam	14484-64-1	3	Except the part on responsibility of Department of Industrial Works
482	Fosamine	59682-52-9	3	
483	Fosamine-ammonium	25954-13-6	3	
484	Phosalone	2310-17-0	3	
485	Fonofos (unstated stereochemistry)	944-22-9	4	
486	Fonofos (racemate)	66767-39-3	4	
487	Fonofos (R)-isomer	62705-71-9	4	
488	Fonofos (S)-isomer	62680-03-9	4	
489	Fomesafen	72178-02-0	3	
490	Phorate	298-02-2	4	
491	Flocoumafen (unstated stereochemistry)	90035-08-8	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
492	Morphothion	144-41-2	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
493	Maneb	12427-38-2	3	
494	Malathion	121-75-5	3	Except the part on responsibility of Food and Drug Administration
495	Maleic hydrazide (dione tautomer)	123-33-1	3	
496	Maleic hydrazide sodium	28330-26-9	3	
497	Maleic hydrazide (tautomer drawn)	10071-13-3	3	
498	Maleic hydrazide potassium	51542-52-0	3	
499	Milbemectin	51596-10-2 51596-11-3	3	
500	Metam	144-54-7	3	
501	Metam-sodium	137-42-8	3	
502	Metam-sodium dehydrate	6734-80-1	3	
503	Mexacarbate	315-18-4	3	
504	Mecarbam	2595-54-2	3	Except the part on responsibility of Food and Drug Administration

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
505	Mecoprop (unstated stereochemistry)	93-65-2	4	
506	Mecoprop (racemate)	7085-19-0	4	
507	Metsulfuron	79510-48-8	3	
508	Metsulfuron-methyl	74223-64-6	3	
509	Metsulfovax	21452-18-6	3	
510	Metribuzin	21087-64-9	3	
511	Methoxychlor	72-43-5	3	Except the part on responsibility of Food and Drug Administration
512	Methoxyfenozide	161050-58-4	3	
513	Metolcarb	1129-41-5	3	
514	Metaldehyde (tetramer)	108-62-3	3	
515	Metaldehyde (unspecified molecular formula)	37273-91-9	3	
516	Metaldehyde (homopolymer)	9002-91-9	3	
517	Metazachlor	67129-08-2	3	
518	Methabenzthiazuron	18691-97-9	3	
519	Methamidophos	10265-92-6	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
520	Metarhizium anisopliae	-	2	
521	Metalaxyl	57837-19-1	3	
522	Metalaxyl-M	70630-17-0	3	
523	Methidathion	950-37-8	3	
524	Metiram	9006-42-2	3	
525	Methyl chloride or chloromethane	74-84-7-3	3	
526	Methyl bromide or bromoethane	74-83-9	3	Except the part on responsibility of Food and Drug Administration
527	Methiocarb	2032-65-7	3	Except the part on responsibility of Food and Drug Administration
528	Metobromuron	3060-89-7	3	
529	Methoprene	40596-69-8	3	Except the part on responsibility of Food and Drug Administration
530	Methomyl	16752-77-5	3	Except the part on responsibility of Food and Drug Administration
531	Metolachlor	51218-45-2	3	
532	Mepiquat	15302-91-7	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
533	Mepiquat chloride	24307-26-4	3	
534	Mepronil	55814-41-0	3	
535	Mephosfolan	950-10-7	4	
536	Mevinphos	26718-65-0	4	
537	Magnesium phosphide	12057-74-8	3	
538	Mancozeb	8018-01-7	3	
539	Monocrotophos	2157-98-4	4	
540	Molinate	2212-67-1	3	
541	Myclobutanil	88671-89-0	3	
542	Mirex	2385-85-5	4	
543	Uniconazole	83657-22-1	3	
544	Rotenone	83-79-4	3	Except the part on responsibility of Food and Drug Administration and Fisheries Department
545	Lindate or gamma-hexachlorocyclohexane or γ -HCH	58-89-9	4	Except the part on responsibility of Food and Drug Administration
546	Linuron	330-55-2	3	
547	Lufenuron	103005-07-8	3	
548	Lead arsenate	7784-40-9	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
549	Lenacil	2164-08-1	3	
550	Leptophos	21609-90-5	4	
551	Lactofen	77501-63-4	3	
552	Lambda-cyhalothrin	91465-08-6	3	
553	Warfarin (unstated stereochemistry)	81-81-2	3	Except the part on responsibility of Food and Drug Administration
554	Warfarin (R)-(+)-isomer	5543-58-8	3	
555	Vamidothion	2275-23-2	3	
556	Validamycin	37248-47-8	3	
557	Vinclozolin (unstated stereochemistry)	50471-44-8	3	
558	Vinyl chloride monomer or monochloroethene	75-01-4	4	
559	Schradan	152-16-9	4	
560	Streptomycin	57-92-1	3	In products used in agriculture for preventing and destroying plant diseases
561	Streptomycin sesquisulfate	3810-74-0	3	Used in agriculture for preventing plant diseases

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
562	Strobane or polychloroterpenes	8001-50-1	4	
563	Steinermema (Neoaplectana) carpocapsae	-	2	
564	Steinernemo siamkayai	-	2	
565	Spinosad	168316-95-8 131929-60-7 131929-63-0	3	
566	Spiromesifen	283594-90-1	3	
567	Bordeaux mixture	8011-63-0	3	
568	Burgundy mixture	11125-96-5	3	
569	Oxasulfuron	144651-06-9	3	
570	Oxaziclomefone	153197-14-9	3	
571	Oxadixyl	77732-09-3	3	
572	Oxadiazon	19666-30-9	3	
573	Oxadiargyl	39807-15-3	3	
574	Oxamyl	23135-22-0	3	
575	Oxycarboxin	5259-88-1	3	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
576	Oxydemeton-methyl	301-12-2	3	Except the part on responsibility of Food and Drug Administration
577	Oxytetracyclin hydrochloride	2058-46-0	3	Used in agriculture for preventing and destroying plant diseases
578	Oxine copper	10380-28-6	3	
579	Oxyfluorfen	42874-03-3	3	
580	Octabromobiphenyl	27858-07-7	4	
581	o-dichlorobenzene or 1,2-dichlorobenzene	95-50-1	4	
582	Oryzalin	19044-88-3	3	
583	Acrinathrin	101007-06-1	3	
584	Acrinathrin (unstated stereochemistry)	103833-18-7	3	
585	Azoxystrobin	131860-33-8	3	
586	Azadirachtin	11141-17-6	2	
587	Azamethiphos	35575-96-3	3	Except the part on responsibility of Food and Drug Administration
588	Azinphos-methyl	86-50-0	4	
589	Azinphos-ethyl	2642-71-9	4	

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No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
590	Acifluorfen	50594-66-6	3	
591	Acifluorfen-sodium	62476-59-9	3	
592	Acetamiprid	135410-20-7	3	
593	Acetochlor	34256-82-1	3	
594	Acephate	30560-19-1	3	
595	Asulam	3337-71-1	3	
596	Asulam-sodium	2302-17-2	3	
597	Atrazine	1912-24-9	3	
598	Anilazine	101-05-3	3	
599	Anilofos	64249-01-0	3	
600	Abamectin	(i) 65195-55-3 (ii) 65195-56-4 (i+ii) 71751-41-2	3	
601	Amitraz	33089-61-1	3	Except the part on responsibility of Food and Drug Administration and Department of Livestock Development
602	Amitrole	61-82-5	4	
603	Aminocarb	2032-59-9	4	
604	Ametryn	834-12-8	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
605	Aramite	140-57-8	4	
606	Alachlor	15972-60-8	3	
607	Alanycarb	83130-01-2	3	
608	Aluminium phosphide	20859-73-8	3	
609	Aldrin	309-00-2	4	
610	Aldicarb	116-06-3	3	Except the part on responsibility of Food and Drug Administration
611	Alpha-chlorohydrin	96-24-2	3	Except the part on responsibility of Food and Drug Administration
612	Alpha-cypermethrin	67375-30-8	3	Except the part on responsibility of Department of Livestock Development
613	Alpha-endosulfan	959-98-8	3	
614	Indoxacarb	144171-61-9 173584-44-6	3	
615	Inabenfide	82211-37-7	3	
616	Imazaquin (unstated stereochemistry)	81335-37-7	3	
617	Imazaquin-ammonium (unstated stereochemistry)	81335-47-9	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
618	Imazapic	104098-48-8 104098-49-9	3	
619	Imazapyr	81334-34-1	3	
620	Imazapyr-isopropylammonium (instated stereochemistry)	81510-83-0	3	
621	Imazalil (unstated stereochemistry)	35554-44-0	3	
622	Imazalil nitrate (unstated stereochemistry)	33586-66-2	3	
623	Imazalil hydrogen sulfate (unstated stereochemistry)	60534-80-7	3	
624	Imazethapyr	81335-77-5	3	
625	Imazopsulfuron	122548-33-8	3	
626	Imidacloprid	138261-41-3	3	Except the part on responsibility of Food and Drug Administration
627	Iminoctadine tris (albesilate)	169202-06-6	3	
628	Edifenphos	17109-49-8	3	
629	EDB or ethylene dibromide	106-93-4	4	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
630	Etridiazole	2593-15-9	3	
631	Etrimfos	38260-54-7	3	
632	Ethaboxam	162650-77-3	3	
633	Ethiprole	181587-01-9	3	
634	Ethephon or 2-chloroethylphosphonic acid	16672-87-0	3	
635	Ethoprophos	13194-48-4	3	
636	Etofenprox	80844-07-1	3	
637	Ethion	563-12-2	3	Except the part on responsibility of Food and Drug Administration
638	Epoxiconazole	106325-08-0	3	
639	EPN or O-ethyl O-4-nitrophenyl phenylphosphonothioate	2104-64-5	3	Except the part on responsibility of Food and Drug Administration
640	Emamectin benzoate	155569-91-8	3	
641	3,5-xylolmethyl carbamate	2655-14-3	3	
642	Ethoxysulfuron	126801-58-9	3	
643	Ethyl 1-naphthyl acetate	2122-70-5	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
644	Ethyl hexyleneglycol or ethyl hexane diol or ethohexadiol	94-96-2	4	
645	Ethylene dichloride or 1,2-dichloroethane	107-06-2	4	
646	Ethylene oxide or 1,2-epoxyethane	75-21-8	4	
647	Endrin	72-20-8	4	Except the part on responsibility of Food and Drug Administration
648	Endosulfan	115-29-7	4	Except CS formula
649	Endosulfan	115-29-7	3	Only CS formula, except the part on responsibility of Food and Drug Administration
650	MGK repellent-11 or 1,5a,6,9,9a,9b-hexahydro-4a(4H)-dibenzofurancarboxaldehyde	126-15-8	4	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
651	Ethyl hexyleneglycol or ethyl hexane diol or ethohexadiol	94-96-2	4	
652	MIPC or o-cumenyl methylcarbamate (isoprocarb)	2631-40-5	3	
653	S-benzyl O,O-dilsopropyl phosphorothioate (iprobefos) or IBP	26087-47-8	3	
654	Esfenvalerate	66230-04-4	3	
655	S-ethyl dipropylthiocarbamate or EPTC	759-94-4	3	
656	ANTU or alpha-naphthylthiourea	86-88-4	3	Except the part on responsibility of Food and Drug Administration
657	Anthraquinone	84-65-1	3	
658	Asbestos-amosite	12172-73-5	4	
659	Ofurace (unstated stereochemistry)	58810-48-3	3	
660	Omethocate	1113-02-6	3	Except the part on responsibility of Food and Drug Administration

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
661	Isoxathion	18854-01-8	3	
662	Isoxaflutole	141112-29-0	3	
663	Isazofos	42509-80-8	3	Except the part on responsibility of Food and Drug Administration
664	Isocarbophos	24353-61-5	3	
665	Isoprofuron	34123-59-6	3	
666	Isoprothiolane	50512-35-1	3	
667	Isofenphos	25311-71-1	3	
668	Iprodione	36734-19-7	3	
669	Iprovalicarb	140923-17-7 140923-25-7	3	
670	Ioxynil	1689-83-4	3	
671	Ioxynil-sodium	2961-62-8	3	
672	Ioxynil octanoate	3861-47-0	3	
673	Halfenprox	111872-58-3	3	
674	Haloxypop (unstated stereochemistry)	69806-34-4	3	

List 1.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
675	Haloxypop-p-methyl or haloxypop-R	72619-32-0	3	
676	Haloxypop-etotyl (unstated stereochemistry)	87237-48-7	3	
677	Haloxypop-methyl (unstated stereochemistry)	69806-40-2	3	
678	Hexachlorobenzene	118-74-1	4	
679	Hexaconazole	79983-71-4	3	
680	Haxazinone	51235-04-2	3	
681	Hexabromobiphenyl	36355-01-8	4	
682	Hexythiazox	78587-05-0	3	
683	Heptachlor	76-44-8	4	
684	Heptenophos	23506-59-0	3	Except the part on responsibility of Food and Drug Administration
685	Hydramethylnon	67485-29-4	3	Except the part on responsibility of Food and Drug Administration
686	Hymexazol	10004-44-1	3	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 1: Responsible by Department of Agriculture

List 1.2 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Chlorophenol	-	3	
2	Cadmium and cadmium compounds	-	4	
3	Nitrophenol	-	3	
4	White oil or refined petroleum oil	-	2	Yielded from refinery process of > 310 °C which is used in a pesticide product for agricultural purpose
5	Pyrethroids	-	3	Except the part on responsibility of Food and Drug Administration
6	Insect growth regulators	-	2	Except the part on responsibility of Food and Drug Administration
7	Mercury compounds	-	4	
8	Extracts from plants such as neem, galangal, citronella, etc. used for preventing and destroying insects and pests	-	2	

List 1.2 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
9	Active ingredients, microorganisms or products containing active ingredients or microorganisms intended for controlling plant growth including stimulation, inhibition and retardation of plant growth e.g. the control of flowering, fruiting, pigment changing, and rooting, etc.	-	2	
10	Active ingredients, microorganisms or products containing active ingredients or microorganisms intended for preventing, destroying or controlling insects or animals which are pests to plants.	-	2	
11	Active ingredients, microorganisms or products containing active ingredients or microorganisms intended for preventing, destroying or controlling plant diseases.	-	2	
12	Active ingredients, microorganisms or products containing active ingredients or microorganisms intended for preventing, destroying or controlling weeds or unwanted plants.	-	2	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 2: Responsible by Department of Fisheries

List 2.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Acetic acid	64-19-7	3	Concentration \leq 80% by weight in products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or other animals.
2	Peracetic acid	79-21-2	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
3	Hydrochloric acid or hydrogen chloride	7647-01-0	3	Concentration \leq 15% by weight in products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or other animals.
4	Glutaraldehyde	111-30-8	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
5	Calcium hypochlorite	7778-54-3	1	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
6	Sodium hydroxide	1310-73-2	1	Concentration \leq 20% by weight in products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or other animals.
7	Sodium hypochlorite	7681-52-9	1	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
8	Trichlofon	52-68-6	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites or aquatic animals.

List 2.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
9	Trifluralin	1582-09-8	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying fungus, parasites, plants
10	Benzalkonium chloride or alkylbenzyltrimethyl ammoniumchloride	68424-85-1	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants and other animals.
11	Formaldehyde or methanal	50-00-0	2	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or other animals.
12	Fentin acetate	900-95-8	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying molluscs.
13	Malachite green oxalate	2437-29-8	3	In products for fancy aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
14	Malachite green oxalate	2437-29-8	4	Except in products used for fancy aquatic animal farming.
15	Malachite green hydrochloride	569-64-2	3	In products for fancy aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
16	Malachite green hydrochloride	569-64-2	4	Except in products used for fancy aquatic animal farming.
17	Rotenone	83-79-4	3	In products for fisheries and aquatic animal farming for the purpose for destroying enemies of fish other aquatic animals.

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 2: Responsible by Department of Fisheries

List 2.1 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Trichloroisocyanuric acid and its salts	-	4	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.
2	Chlorine and chlorine releasing substances	-	3	In products for fisheries and aquatic animal farming for the purpose of controlling, preventing, and destroying microorganisms, parasites, plants or aquatic animals.

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 2: Responsible by Department of Fisheries

List 2.3 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Microorganism products used for conditioning water or intended to prevent, destroy or control microorganisms, parasites, plants or other aquatic animals in aquatic animal pond.	-	2	
2	Products containing active ingredients intended to prevent, destroy or control microorganisms, parasites, plants or other aquatic animals in aquatic animal pond.	-	2	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 3: Responsible by Department of Livestock Development

List 3.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Coumatetralyl	5836-29-3	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
2	Cypermethrin	52315-07-8	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
3	Cyromazine	66215-27-8	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
4	Deltamethrin	52918-63-5	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
5	Difethialone	104653-34-1	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
6	Diazinon	333-41-5	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)

List 3.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
7	Tetramethrin	7696-12-0	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
8	Trichlorfon	52-68-6	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
9	Triflumuron	64628-44-0	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
10	Tau-fluvalinate	102851-06-9	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
11	Thiamethoxam	153719-23-4	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
12	Beta-cypermethrin	65731-84-2	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
13	Brodifacoum	56073-10-0	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)

List 3.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
14	Bromadiolone	28772-56-7	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
15	Bromopropylate	18181-80-1	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
16	Piperonyl butoxide or piperonyl ether butoxide	51-03-6	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
17	Flumethrin	69770-45-2	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
18	Phoxim	14816-18-3	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
19	Phosmet	732-11-6	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
20	Flocoumafen	90035-08-8	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)

List 3.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
21	Azamethiphols	35575-96-3	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
22	Amitraz	33089-61-1	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)
23	Alpha-cypermethrin	67375-30-8	3	In active ingredients or products containing active ingredients intended for preventing, destroying, controlling insects or animal pests (except parasites living in animals)

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 3: Responsible by Department of Livestock Development

List 3.2 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Nonionic surfactants except nonylphenol ethoxylate	-	1	In products used in animal feed manufacturing, animal farm, slaughter house and animal processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
2	Anionic surfactants	-	1	In products used in animal feed manufacturing, animal farm, slaughter house and animal processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
3	Products used in animal feed manufacturing, animal farm, slaughter house and animal processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.	-	2	-
4	Active ingredients, microorganisms, or products containing active ingredients or microorganisms intended for preventing, destroying and controlling insects or animal pests (except parasites living in animals)	-	2	-
5	Extracts from plants such as neem, galangal, citronella, etc. used for preventing and destroying insects or animal pests	-	2	-

List 3.2 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
6	Nonylphenol ethoxylate	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
7	Phenols and phenolic compounds	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
8	Acids	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
9	Alkalis	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
10	Aldehydes	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.

List 3.2 Group of Controlled Substance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
11	Chlorine and chlorine releasing substance	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
12	Cathionic surfactants	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.
13	Amphoteric surfactants	-	3	In products used in animal feed manufacturing, animal farm, slaughter house and meat processing product manufacturing for purposes of disinfection and cleaning or for anti-clogging of drainage system or sewer line.

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 4: Responsible by Food and Drug Administration

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	1-(<i>p</i> -methoxyphenyl)-2-methyl-1,3-propanediol-methylene ether	5689-72-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
2	1,1,1-trichloroethane or methyl chloroform	71-55-6	4	In products used in household or public health activity
3	1,1,2-trichloroethane	79-00-5	3	In products used for text correction or removal or as solvent for chemicals used for text correction or removal or dry cleaning of fabric or other textile products.
4	1,2,3,4-tetrahydro-2-naphthol	530-91-6	3	I In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
5	1,3-dichloro-5,5-dimethylhydantoin	118-52-5	3	In products used for bleaching, disinfection or removal of odor in a swimming pool
6	2,4,5-TCP or 2,4,5-trichlorophenol	95-95-4	4	
7	2,4-dinitroanisole	119-27-7	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
8	2-nitro-2-methyl-1,3-propanediol	77-49-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
9	2-nitro-2ethyl-1,3-propanediol butyraldehyde acetal	5702-40-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
10	2-phenylcyclohexanol	1444-64-0	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
11	2-phenylethyl-alpha-hydroxy isobutyrate	10290-01-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
12	4-nitrodiphenyl	92-93-3	4	
13	4-aminodiphenyl	92-67-1	4	
14	Cyclohexane carboxylic acid	98-89-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
15	Boric acid	10043-35-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
16	Hydrocyanic acid or hydrogen cyanide	74-90-8	4	In products used in household or public health activity

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
17	Glutaraldehyde	111-30-8	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials
18	Crimidine	535-89-7	4	In products used in household or public health activity with purpose for destroying rodents
19	Crufomate	299-86-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
20	Chlordimeform	6164-98-3	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
21	Chlordecone	143-50-0	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
22	Chlordane	57-74-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
23	Chlorthiophos	21923-23-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
24	Chlorpyrifos	2921-88-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
25	Chlorpyrifos-methyl	5598-13-0	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
26	Chlorfenvinphos [(Z)+(E)-isomer]	470-90-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
27	Chlormephos	24934-91-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
28	Chloranil	118-75-2	4	
29	Chlorobenzilate	510-15-6	4	
30	Chloroform or trichloromethane	67-66-3	4	In hazardous products used in household or public health activity activities
31	Chlorophacinone	3691-35-8	3	In products used in household or public health activity with purpose for destroying rodents
32	Quintozene or PCNB	82-68-8	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
33	Copper arsenate hydroxide	16102-92-4	4	
34	Solid carbon dioxide or dry ice	124-38-9	1	

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
35	Carbon tetrachloride or tetrachloromethane	56-23-5	4	In products used for text correction or removal or as solvent for chemicals used for text correction or removal or dry cleaning of fabric or other textile products.
36	Carbaryl	63-25-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
37	Calomel	10112-91-1	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
38	Kelevan	4234-79-1	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
39	Coumatetralyl	5836-29-3	3	In products used in household or public health activity with purpose for destroying rodents
40	Coumaphos	56-72-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
41	Coumafuryl	117-52-2	3	In products used in household or public health activity with purpose for destroying rodents
42	Capsaicin	404-86-4	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
43	Captafol	2425-06-1	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
44	Calcium arsenate	7778-44-1	4	
45	Calcium hypochlorite	7778-54-3	1	In products used for disinfecting or removing odor of a swimming pool
46	Crotoxyphos	7700-17-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
47	Cholecalciferol	67-97-0	2	In products used in household or public health activity with purpose for destroying rodents
48	Kinoprene	37882-31-8	3	In products used in household or public health activity intended for preventing and controlling insects by means of controlling their growth.
49	Jodfenphos	18181-70-9	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
50	Sulfluramid	4151-50-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
51	Zinc phosphide	1314-84-7	4	In products used in household or public health activity with purpose for destroying rodents
52	Scilliroside	507-60-8	3	In products used in household or public health activity with purpose for destroying rodents
53	Silvex	93-72-1	4	
54	Cis-bicyclo (2,2,1-heptene-2,3-dicarboxylic acid) methyl ester	5826-73-3	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
55	Sec-butyl mercaptan or 2-butanethiol	513-53-1	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.
56	Safrole	94-59-7	4	
57	Sodium fluoride	7681-49-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
58	Sodium hypochlorite	7681-52-9	1	In products used for disinfecting or removing odor of a swimming pool
59	Cycloheximide	66-81-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
60	Cyclohexyl acetoacetate	6947-02-0	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
61	Cyanophos	2636-26-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
62	DDT or 1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane	50-29-3	4	
63	DBCP or 1,2-dibromo-3-chloropropane	96-12-8	4	
64	Dieldrin	60-57-1	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
65	DEET or N,N-diethyl-3-methylbenzamide	134-62-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
66	Decabromobiphenyl	13654-09-6	4	
67	Di (phenylmercury) dodecenyl succinate or di (phenylmercury) dodecenyl-3-succinate	27236-65-3	4	

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
68	Dichlorvos	62-73-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
69	Dicofol	115-32-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
70	Dicrotophos	141-66-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
71	Dinitrocresol or DNOC	534-52-1	4	In products used in household or public health activity
72	Dibutyl phthalate	84-74-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
73	Diflubenzuron	35367-38-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
74	Diphacinone	82-66-6	3	In products used in household or public health activity with purpose for destroying rodents
75	Difenacoum	56073-07-5	3	In products used in household or public health activity with purpose for destroying rodents
76	Dimethyl phthalate	131-11-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
77	Dimethian	644-64-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
78	Dioxacarb	6988-21-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
79	Dioxathion	78-34-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
80	Diazinon	333-41-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
81	Diethyl phthalate	84-66-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
82	Diethylene glycol monobutyl ether acetate	124-17-4	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
83	di-isopropyl tartrate	2217-15-4	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
84	Tetrachlorvinphos	22248-79-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
85	Tetrachloroethane or acetylene tetrachloride or 1,1,2,2-tetrachloroethane	79-34-5	4	In products used in household or public health activity
86	Trichlorfon	52-68-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
87	Tris (2,3-dibromopropyl) phosphate	126-72-7	4	
88	Toxaphene or camphechlor	8001-35-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
89	Thanite	115-31-1	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
90	TDE or DDD or 1,1-dichloro-2,2-bis(4-chlorophenyl) ethane	72-54-8	4	
91	Temephos	3383-96-8	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
92	Tert-butyl mercaptan or 2-methyl-2-propanethiol	75-66-1	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
93	Thallium sulfate	7446-18-6	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
94	Norbormide	991-42-4	3	In products used in household or public health activity with purpose for destroying rodents
95	Dibutyl-DL-malate	6280-99-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
96	n-butyl mercaptan or 1-butanethiol	109-79-5	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.
97	n-propyl cinnamate	7778-83-8	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
98	Naled	300-76-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
99	Citronella oil	8000-29-1	1	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
100	Naphthalene	91-20-3	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals, or for odor control

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
101	Naphthylamine	134-32-7	4	
102	Bacillus thuringiensis	68038-71-1	3	In products containing active ingredients extracted or derived from microorganisms, intended to stop or prevent personal harm by means of destroying f of mosquitoes or insects.
103	Bis (chloromethyl) ether	542-88-1	4	
104	BHC or benzene hexachloride or HCH or hexachlorocyclohexane	608-73-1	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
105	Beta-HCH or 1,3,5/2,4,6-haxachlorocyclohexane	319-85-7	4	
106	Benzidine	92-87-5	4	
107	Benzyl benzoate	120-51-4	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
108	Bendiocarb	22781-23-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
109	Barium carbonate	513-77-9	3	In products used in household or public health activity with purpose for destroying rodents
110	Brodifacoum	56073-10-0	3	In products used in household or public health activity with purpose for destroying rodents
111	Bromadiolone	28772-56-7	3	In products used in household or public health activity with purpose for destroying rodents
112	Bromophos	2104-96-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
113	Bromophos-ethyl	4824-78-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
114	Paris green	12002-03-8	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
115	Plifenate	21757-82-4	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
116	<i>p</i> -(<i>n</i> -propoxy) benzaldehyde	5736-85-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
117	Paraquat dichloride	1910-42-5	4	

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
118	<i>p</i> -dichlorobenzene or 1,4-dichlorobenzene	106-46-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals, or for odor control
119	Parathion	56-38-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
120	Parathion-methyl	298-00-0	4	
121	<i>p</i> -methoxybenzyl alcohol	105-13-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
122	<i>p</i> -isopropylphenylethyl alcohol	10099-57-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
123	Pindone	83-26-1	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
124	Pirimiphos-methyl	19232-93-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
125	PAVA or pelargonic acid vanillylamide or N-[(4-hydroxy-3-methoxyphenyl) methyl] nonanamide	2444-46-4		In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
126	Pentachlorophenate sodium or pentachlorophenoxide sodium	131-52-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
127	Pentamethylene dipropionate	10025-09-9	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
128	Polychlorinated terphenyl or PCT	61788-33-8	4	
129	Prothiofos	34643-46-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
130	Propoxur	114-26-1	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
131	Propetamphos	31218-83-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
132	Promecarb	2631-37-0	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
133	Piperonyl cyclohexanone	12261-99-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
134	Piperonyl butoxide or piperonyl ether butoxide	51-03-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
135	Pyrinuron or piriminil	53558-25-1	4	
136	Pyrethrins	8003-34-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
137	Fluoroacetamide	640-19-7	4	In products used in household or public health activity with purpose for destroying rodents
138	Fluoroacetate sodium	62-74-8	4	In products used in household or public health activity with purpose for destroying rodents
139	Phoxim	14816-18-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
140	Phosphorus	7723-14-0	4	
141	Phosphamidon	13171-21-6	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
142	Phosphine	7803-51-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
143	Phosmet	732-11-6	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
144	Fipronil	120068-37-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
145	PMO or phenylmercuric oleate	104-60-9	4	
146	Phenylmercury acetate	62-38-4	4	
147	Fenchlorphos	299-84-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
148	Phenthoate	2597-03-07	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
149	Fenthion	55-38-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
150	Fenoxycarb	72490-01-8	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
151	Fenitrothion	122-14-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
152	Flocoumafen	90035-08-8	3	In products used in household or public health activity with purpose for destroying rodents

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
153	Malathion	121-75-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
154	Mecarbam	2595-54-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
155	Methoxychlor	72-43-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
156	Methacrifos	62610-77-9	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
157	Methanol or methyl alcohol	67-56-1	1	Use as solvent in household products
158	Methanol or methyl alcohol	67-56-1	4	In products intended for injection or spraying, and in products that contact to skin or food when being used.
159	Methanol or methyl alcohol	67-56-1	4	Having concentration > 1% v/v in products being used as fuel for cooking or warming food
160	Methamidophos	10265-92-6	4	
161	Methyl bromide or bromomethane	74-83-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
162	Methiocarb	2032-65-7	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
163	Methoprene	40596-69-8	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals by controlling insect growth
164	Methomyl	16752-77-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
165	Mevinphos	7786-34-7	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
166	Monocrotophos	6923-22-4	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
167	Mirex	2385-85-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
168	Red squill	507-60-8	3	In products used in household or public health activity with purpose for destroying rodents
169	Rotenone	83-79-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
170	Ryania	15662-33-6	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
171	Lindane or gamma-hexachlorocyclohexane or γ -HCH	58-89-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals, except in medical product used as second line treatment for scabies and louse
172	Lead arsenate	7784-40-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
173	Warfarin	81-81-2	3	In products used in household or public health activity with purpose for destroying rodents
174	Vinyl chloride monomer or monochloroethene	75-01-4	4	Used as propellant in injection or spraying products
175	Skunk oil	-	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.
176	Schradan or octamethylpyrophosphoramidate or OPMA	152-16-9	4	
177	Strychnine sulfate	60-41-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
178	Strobane or polychloroterpenes	8001-50-1	4	
179	Oxydemeton-methyl	301-12-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
180	Octabromobiphenyl	27858-07-7	4	
181	o-dichlorobenzene or 1,2-dichlorobenzene	95-50-1	4	
182	Azamethiphos	35575-96-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
183	Acetophenone, 4-methoxy-3-methyl	10024-90-5	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
184	Amitraz	33089-61-1	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
185	Amitrole	61-82-5	4	
186	Aldrin	309-00-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
187	Aldicarb	116-06-3	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
188	Alpha,alpha'-dimethyl-alpha-carbobutoxy-dihydro-gamma-pyrone	532-34-3	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
189	Alpha-chlorohydrin	96-24-2	3	In products used in household or public health activity with purpose for destroying rodents
190	Imidacloprid	105827-78-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
191	EDB or 1,2-dibromoethane	106-93-4	4	
192	Ethanethiol or ethyl mercaptan or ethyl sulfhydrate	75-08-1	4	In products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others.
193	Ethion	563-12-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
194	EPN or ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	4	
195	Ethanol, 2,2'-thiodi-,diacetate	4275-28-9	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
196	Ethylcyanocyclohexyl acetate	1331-45-9	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
197	Ethyl hexyleneglycol or ethyl hexane diol or ethohexadiol	94-96-2	4	
198	Ethylene glycol n-butyl ether or ethylene glycol mono butyl ether or 2-butoxy ethanol	111-76-2	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials
199	Ethylene dichloride	107-06-2	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
200	Ethylene oxide or 1,2-epoxyethane	75-21-8	4	Except when used for disinfection in health care services
201	Ethyl N, N-dipropyl succinamate	10143-31-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
202	n-propyl N, N-diethyl succinamate	5834-84-4	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
203	N-sec-butyl phthalimide	10108-61-9	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
204	Endrin	72-20-8	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
205	Endosulfan	115-29-7	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
206	N-butyl-1,2,3,6-tetrahydronaphthalimide	2021-19-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
207	MGK or 1,4,4a,5a,6,9,9a,9b-octahydrodibenzofuran-4a-carbaldehyde	126-15-8	4	
208	Ergocalciferol	50-14-6	3	In products used in household or public health activity with purpose for destroying rodents
209	ANTU or 1-naphthylthiourea	86-88-4	4	In products used in household or public health activity with purpose for destroying rodents
210	Asbestos: amosite	12172-73-5	4	
211	Omethoate	1113-02-6	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
212	Isazofos	42509-80-8	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
213	Isodrin	465-73-6	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
214	Isobenzan	297-78-9	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
215	Isopropyl cinnamate	7780-06-5	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
216	Haxachlorobenzene	118-74-1	4	
217	Hexabromobiphenyl	36355-01-8	4	
218	Diethylhexahydrophthalate	10138-59-7	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
219	Heptachlor	76-44-8	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
220	Heptenophos	23560-59-0	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List 4.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
221	2-phenylethyl 3-hydroxy propanoate	10138-63-3	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
222	Hydramethylnon	67485-29-4	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
223	Hydrogen peroxide	7722-84-1	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials
224	Hydroprene	41096-46-2	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals by controlling insect growth

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 4: Responsible by Food and Drug Administration

List 4.2 Group of Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Dichloroisocyanuric acid and its salts	-	1	In products used for disinfection or odor removal for a swimming pool
2	Trichloroisocyanuric acid and its salts	-	1	In products used for disinfection or odor removal for a swimming pool
3	Fluoroacetic acid and its salts	-	4	In products used in household or public health activity with purpose for destroying rodents
4	Acids	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
5	Chlorhexidine salts	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
6	Soluble cyanide salts	-	4	In products used in household or public health activity
7	Chlorofluorocarbons	-	4	Only when used as a propellant in injection or spraying product, except in medical product and product used for skin cooling

List 4.2 Group of Control Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
8	Alkalis	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
9	Nonylphenol ethoxylate	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
10	Polyalkylene glycol stearate	-	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
11	Pyrethroids	-	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
12	Insect growth regulators	-	2	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals by controlling insect growth

List 4.2 Group of Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
13	Microbial larvicides	-	2	In products containing active ingredients extracted or derived from microorganisms, intended to stop or prevent personal harm by means of destroying larva of mosquitoes or insects
14	Mercury compounds	-	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects, fungus and other animals
15	Amphoteric surfactants	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
16	Anionic surfactants	-	1	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line, except in detergent product
17	Cationic surfactants	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line

List 4.2 Group of Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
18	Nonionic surfactants except nonylphenol ethoxylate	-	1	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line, except in detergent product
19	Alkyl cyanoacrylate	-	1	In product used in household or public health activity with purposes for bonding of material surfaces
20	aldehydes	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
21	Ethyl ester of epoxy methylphenyl acrylic acid	-	3	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
22	Chlorine and chlorine releasing substances	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
23	Cadmium and cadmium compounds	-	4	

List 4.2 Group of Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
24	Dinoseb and dinoseb salts	88-85-7	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
25	Pentachlorophenol and its salts	-	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals
26	Phenols and phenolic compounds	-	3	In products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line
27	Dyes	-	4	In food product or food ingredients
28	Arsenic and arsenic compounds	-	4	In products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 4: Responsible by Food and Drug Administration

List 4.3 Group of Control Product

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Products used in household or public health activity with purpose for destroying rodents	-	2	
2	Products used in household or public health activity with purposes for inhibiting, preventing, controlling, destroying insects and other animals	-	2	
3	products used in household or public health activity with purposes for disinfecting floor, wall, sanitary ware, and other materials or for anti-clogging of drainage system or sewer line	-	2	
4	Products used in household or public health activity for bleaching, disinfecting or odor removal for a swimming pool	-	2	
5	Products used for text correction or removal or as solvent for chemicals used for text correction or removal or dry cleaning of fabric or other textile products.	-	2	
6	Products intended for temporary disturbing human physiological function for the purpose of preventing harm to oneself and others	-	4	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 5: Responsible by Department of Industrial Works

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	(+/-) tetrahydrofurfuryl-(R)-2-[4-(6-chloroquinoxalin-2-yioxy) phenyloxy] propionate	119738-06-6	4	
2	(2RS, 3RS)-3-(2-chlorophenyl)-2,4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)-methyl]oxirane or epoxiconazole	106325-08-0	4	Except the part on responsibility of Department of Agriculture
3	(4-diethoxymethylsilyl) butylamine	3037-72-7	1	
4	(R)-1-chloro-2,3-epoxypropane or (R)-epichlorohydrin	51594-55-9	4	
5	6-[4-hydroxy-3-(2-methoxyphenylazo)-2-sulfonato-7-naphthylamino]-1,3,5-triazine-2,4-diyl bis [(amino-1-methylethyl)-ammonium] formate	108225-03-2	4	
6	1,1,1-trichloroethane or methylchloroform	71-55-6	3	Except the part on responsibility of Food and Drug Administration
7	1,1,2-trichloroethane	79-00-5	1	Except the part on responsibility of Food and Drug Administration

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
8	1,1,2-trichloroethylene	79-01-6	3	
9	1,2-dichloroethylene	540-59-0	2	
10	1,2-dinitrobenzene	528-29-0	3	
11	1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H) -trione	59653-74-6	4	
12	1,3-dinitrobenzene	99-65-0	3	
13	1,3-butadiene or buta-1,3-diene	106-99-0	3	
14	1,4-dinitrobenzene	100-25-4	3	
15	1,4-butanediol or 1,4-butylene glycol	110-63-4	3	
16	1,5-naphthalene diisocyanate	3173-72-6	3	
17	2-(thiocyanomethylthio) benzothiazole	21564-17-0	3	
18	2,2-dichlorodiethyl ether or 1,1-oxybis-2-chloroethane	111-44-4	1	
19	2,2'-bioxirane or 1,3-butadiene diepoxide or 1,2 : 3,4-diepoxo butane	1464-53-5	3	
20	2,3-dinitrotoluene	602-01-7	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
21	2,3-dibromopropan-1-ol	96-13-9	4	
22	2,3-epoxy-1-propanol or glycidol	57044-25-4	4	
23	2,4,5-TCP or 2,4,5-trichlorophenol	95-95-4	4	
24	2,4,6-trimethylaniline	88-05-1	3	
25	2,4-dinitroaniline	97-02-9	3	
26	2,5-dinitrotoluene	619-15-8	4	
27	2-chloroethanesulfonyl chloride	1622-32-8	1	
28	2-chloroethyl alcohol or 2-chloroethanol	107-07-3	2	
29	2-bromopropane or isopropyl bromide	75-26-3	4	
30	2-methyl-2-propene-1, 1-diol diacetate	10476-95-6	1	
31	2-methyl-5-vinyl pyridine	140-76-1	1	
32	2-ethyl-1,3-hexanediol	94-96-2	4	
33	2-ethylhexyl acrylate	103-11-7	2	
34	3-(trifluoromethyl) benzenamine	98-16-8	1	
35	3,3 bis (chloromethyl) oxetane	78-71-7	1	
36	3,4-dichlorophenyl isocyanate	102-36-3	1	
37	3,4-dinitrotoluene	610-39-9	4	
38	3,5-dinitrotoluene	618-85-9	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
39	3-chloropropanenitrile	542-76-7	1	
40	4-nitrodiphenyl	92-93-3	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
41	4-nitropyridine-1-oxide	1124-33-0	1	
42	4-aminodiphenyl	92-67-1	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
43	4'-aminopropiophenone	70-69-9	1	
44	6-hydroxy-1-(3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo) phenylazo]-1,2-dihydro-3-pyridinecarbonitrile	85136-74-9	4	
45	2,2-diphenyl-2-hydroxyacetic acid	76-93-7	3	Controlled hazardous substance according to list 2B (Precursors)annexed to chemical weapons convention
46	Gamma-hydroxyvaleric acid	13532-37-1	3	
47	Chromic acid	7738-94-5	3	Having concentration > 15% w/w
48	Sulfuric acid	7664-93-9	3	Having concentration > 50% w/w
49	Sulfuric acid, fuming or oleum	8014-95-7	3	Having concentration > 50% w/w
50	Selenious acid	7783-00-8	1	
51	Thioglycolic acid or 2-mercaptoacetic acid	68-11-1	2	
52	Nitric acid	7697-37-2	2	Having concentration > 15% w/w

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
53	Benzenearsonic acid	98-05-5	1	
54	Boric acid	10043-35-3	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
55	Picric acid or 2,4,6-trinitro phenol or picronic acid	88-89-1	3	
56	Polyphosphoric acid	8017-16-1	1	Having concentration > 40% w/w
57	Pyrophosphoric acid	2466-09-3	1	Having concentration > 25% w/w
58	Phosphoric acid	13598-36-2	3	Industrial use
59	<i>m</i> -phosphoric acid	37267-86-0	1	
60	Methoxyacetic acid or 2-methoxyacetic acid or methyl ether	625-45-6	4	
61	<i>o</i> -phosphoric acid	7664-38-2	1	Having concentration > 25% w/w
62	Acrylic acid	79-10-7	1	
63	Acetic acid	64-19-7	3	Having concentration > 80% w/w
64	Hydrochloric acid	7647-01-0	3	Having concentration > 15% w/w
65	Hydrofluoric acid	7664-39-3	1	Having concentration > 15% w/w
66	Glucitol or 2,3-epoxy-1-propanol	556-52-55	2	
67	Fluorine gas	7782-41-4	3	
68	Ozone	10028-15-6	1	
69	Gamma-butyrolactone or butyrolactone	96-48-0	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
70	Gallium trichloride	13450-90-3	1	
71	Gold (I) cyanide	-	1	
72	Gold sodium cyanide	15280-09-8	1	
73	Gold potassium cyanide	13967-50-5	1	
74	Glycolonitrile or hydroxyacetonitrile	107-16-4	3	
75	Chlorpyrifos	2921-88-2	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
76	Chlorine	7782-50-5	3	Except the part on responsibility of Department of Fisheries, Department of Livestock Development and Food and Drug Administration
77	Chlorosarin: O-isopropyl methylphosphonochloridate	1445-76-7	4	Controlled hazardous substance according to list 1B (precursors) annexed to the chemical weapons convention
78	Chlorosoman: O-pinacolyl methylphosphonochloridate	7040-57-5	4	Controlled hazardous substance according to list 2A (toxic chemicals) annexed to the chemical weapons convention
79	Chlorobenziate	510-15-6	4	
80	Chlorobenzene or phenyl chloride	108-90-7	2	
81	Chloropicrin: trichloronitromethane	76-06-2	4	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
82	Chloroform or trichloromethane	67-66-3	3	Except the part on responsibility of Food and Drug Administration

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
83	Chloroethyl chloroformate	627-11-2	1	
84	Quinuclidine-3-ol	1619-34-7	3	Controlled hazardous substance according to list 2B (precursors) annexed to the chemical weapons convention
85	Copper (I) cyanide	544-92-3	1	Having concentration > 1% w/w
86	Copper (II) sulphate (pentahydrate)	7758-99-8	1	Industrial use
87	Copper (II) hydroxide	20427-59-2	3	Industrial use
88	Copper (II) cyanide	14763-77-0	1	Having concentration > 1% w/w
89	Copper arsenate hydroxide	16102-92-4	4	
90	Carbon disulfide	75-15-0	2	
91	Carbon tetrachloride or tetrachloromethane	56-23-5	3	Except the part on responsibility of Food and Drug Administration
92	Carbendazim	10605-21-7	3	Except the part on responsibility of Department of Agriculture
93	Cuprous oxide	1317-39-1	3	Except the part on responsibility of Department of Agriculture
94	Cadmium chloride	10108-64-2	3	
95	Cadmium cyanide	542-83-6	3	Having concentration > 1% w/w
96	Cadmium fluoride	7790-79-6	3	
97	Cadmium oxide	1306-19-0	3	
98	Cadmium iodide	7790-80-9	3	
99	Calcium arsenate	7778-44-1	4	
100	Calcium hypochlorite	7778-54-3	1	Except the part on responsibility of Department Fisheries

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
101	Cobalt carbonyl or cobalt tetracarbonyl or octacarbonyldicobalt	10210-68-1	3	Industrial use
102	Crotonaldehyde or 2-butenal	4710-30-3	3	
103	Chromic chloride	10025-73-7	3	
104	Chromium trioxide	1333-82-0	3	Having concentration > 15% w/w
105	Salcomine	14167-18-1	1	
106	Sulfur dichloride	10545-99-0	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
107	Sulfur dioxide	7446-09-5	3	
108	Sulfur tetrafluoride	7783-60-0	1	
109	Sulfur trioxide	7446-11-9	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
110	Sulfur mustards 2-chloroethylchloromethylsulfide	2625-76-5	4	Controlled hazardous substance according to list 1A (toxic chemicals) annexed to the chemical weapons convention
111	Mustard gas : bis (2-chloroethyl) sulfide	505-60-2		
112	Bis (2-chloroethylthio) methane	63869-13-6		
113	Sesquimustard: 1,2 bis (2-chloroethylthio) ethane	3563-36-8		
114	1,3-bis (2-chloroethylthio)-n-propane	63905-10-2		
115	1,4-bis (2-chloroethylthio)-n-butane	142868-93-7		
116	1,5-bis (2-chloroethylthio)-m-pentane	142868-94-8		
117	Bis (2-chloroethylthiomethyl) ether	63918-90-1		
118	O-mustard : bis (2-chloroethylthioethyl) ether	63918-89-8		
119	Sulfur monochloride	10025-67-9	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
120	Sulphur hexafluoride	2551-62-4	3	
121	Safrole	94-59-7	4	
122	Zinc cyanide	557-21-1	3	Having concentration > 1% w/w
123	Zineb	12122-67-7	3	Except the part on responsibility of Department of Agriculture

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
124	Ziram	137-30-4	3	
125	Selenium oxychloride	7791-23-3	3	
126	CFC-11	75-69-4	3	
127	CFC-111	354-56-3	3	
128	CFC-112	76-12-0	3	
129	CFC-113	76-13-1	3	
130	CFC-114	76-14-2	3	
131	CFC-115	76-15-3	3	
132	CFC-12	75-71-8	3	
133	CFC-13	75-72-9	3	
134	CFC-211	422-78-6	3	
135	CFC-212	3182-26-1	3	
136	CFC-213	2354-06-5	3	
137	CFC-214	29255-31-0	3	
138	CFC-215	1599-41-3	3	
139	CFC-216	661-97-2	3	
140	CFC-217	422-86-6	3	
141	Sec-butyl mercaptan or 2-butanethiol	513-53-1	3	
142	Sec-butyl acetate	105-46-4	1	Having concentration > 75% w/w
143	Semicarbazide hydrochloride	563-41-7	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
144	Saxitoxin	3552-89-8	4	Controlled hazardous substance according to list 1A (toxic chemicals) annexed to the chemical weapons convention
145	Sodium chlorate	7775-09-9	3	Except the part on responsibility of Department of Agriculture
146	Sodium chromate	7775-11-3	4	
147	Sodium cyanide	143-33-9	3	Having concentration > 1% w/w, except the part on responsibility of Food and Drug Administration
148	Sodium tetraborate pentahydrate	12179-04-3	3	
149	Sodium tetra borate decahydrate or borax	1303-96-4	3	
150	Sodium tetraborate anhydrous	1330-43-4	3	
151	Sodium pentachlorophenate	131-52-2	4	
152	Sodium fluorosilicate or sodium hexafluorosilicate	16893-85-9	1	
153	Sodium hydroxide	1310-73-2	1	Having concentration > 20% w/w
154	Sodium hypochlorite	7681-52-9	1	Except the part on responsibility of Department of Fisheries
155	Cyclohexylamine or hexahydroaniline or aminocyclohexane	108-91-8	3	
156	Cypermethrin	52315-07-8	3	Industrial use

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
157	Cyanuric fluoride or 2,4,6-trifluoro-S-triazine or 2,4,6-trifluoro-1,3,5-triazine	675-14-9	3	
158	Cyanogen or ethanedinitrile or oxalonitrile or dicyan	460-19-5	4	
159	Cyanogen chloride	506-77-4	3	Controlled hazardous substance according to list 3A (precursors) annexed to the chemical weapons convention
160	Xylylene dichloride	28347-13-9	1	
161	Xylenol or dimethyl phenol	108-68-9	1	
162	Dazomet	533-74-4	3	Except the part on responsibility of Department of Agriculture
163	Decabromobiphenyl	13654-09-6	4	
164	Decaborane (14)	17702-41-9	3	
165	Di (phenylmercury) dodecanyl succinate or Di (phenylmercury) dodecanyl-3-succinate	27236-65-3	4	
166	Diglycidyl ether	2238-07-5	3	
167	Dichlorophen	97-23-4	3	Industrial use
168	Dichloromethylphenylsilane	149-74-6	1	
169	Disodium octaborate tetrahydrate	12280-03-4	3	
170	Dithiazanine iodide	514-73-8	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
171	Dithiobiuret	541-53-7	3	
172	Diborane or boron hydride	19287-45-7	3	
173	Dibenzoyl peroxide	94-36-0	3	
174	Diphenylmethane-4,4-diisocyanate or Methylene-di-p-phenylene isocyanate or Methylene bis phenyl isocyanate	101-68-8	3	
175	Dimethyl sulphate or methyl sulphate	77-78-1	3	
176	Dimethylphosphorochloridothioate	2524-03-0	3	
177	Dimethyl phosphite	868-85-9	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
178	Dimethylhydrazine	57-14-7	1	
179	Diuron	330-54-1	3	Except the part on responsibility of Department of Agriculture
180	Diethyl chlorophosphonate or diethoxy phosphorus oxychloride	814-49-3	1	
182	Diethyl sulphate or ethyl sulphate	64-67-5	3	
183	Diethyl ether	60-29-7	3	
184	Diethylenetriamine (2.2-diaminodiethylamine)	111-40-0	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
185	Tetrachloroethane or acetylene tetra chloride or 1,1,2,2-tetrachloroethane	79-34-5	1	
186	Tetramethyl lead	75-74-1	3	
187	Tetraethyl tin	597-64-8	3	
188	Tetraethyl lead	78-00-2	3	
189	Trichloro (chloromethyl) silane	1558-25-4	1	
190	Trichloro (dichlorophenyl) silane	27137-85-5	1	
191	Trichlorophenylsilane	98-13-5	1	
192	Trichloroacetyl chloride	76-02-8	1	
193	trisodium-[4'-(8-acetylamino-3-6-disulfonato-2-naphthylazo)-4''-(6-benzoylamino-3-sulfonato-2-naphthylazo) biphenyl-1,3',3'',1'''-tetraolato-0,0',0'',0'''] copper(II)	164058-22-4	4	
194	Tridecafluorohexane	355-37-3	3	
195	Tributyl tin fluoride	1983-10-4	3	
196	Tributyl tin oxide	56-35-9	3	
197	Trimethylchlorosilane	75-77-4	3	
198	Trimethyltin chloride	1066-45-1	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
199	Trimethyl phosphite	121-45-9	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
200	Trimethylolpropane phosphite	824-11-3	1	
201	Triethoxysilane	998-30-1	1	
202	Triethanolamine	102-71-6	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
203	Triethyl phosphite	122-52-1	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
204	Triethylenetetramine	112-24-3	1	
205	Trans-1,4-dichlorobutene-2	110-57-6	3	
206	Trans-crotonaldehyde	123-73-9	3	
207	T-4 or ethienocarb or (trans-4)-dichloro {4,4-dimethylzinc-5{ [(methylamino) carbonyl] oxy}-imino} pentanenitrile}	58270-08-9	1	
208	Tert-butyl mercaptan or 2-methyl-2-propanethiol	75-66-1	2	
209	Terbutryn	886-50-0	3	Industrial use
210	Thallos chloride	7791-12-0	1	
211	Thallos carbonate	6533-73-9	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
212	Thallos malonate	2757-18-8	1	
213	Thallium sulfate	7446-18-6	4	
214	Toluene	108-88-3	3	Having concentration >75% w/w
215	Toluene-2,4-diisocyanate	584-84-9	3	
216	Toluene-2,6-diisocyanate	91-08-7	3	
217	Titanium tetrachloride	7550-45-0	1	
218	Thiram	137-26-8	3	Except the part on responsibility of Department of Agriculture
219	Thaibendazole	148-79-8	3	Except the part on responsibility of Department of Agriculture
220	Thiocarbazide	2231-57-4	1	
221	Thiosemicarbazide	79-19-6	1	
222	Thiodiglycol : bis (2-hydroxyethyl) sulfide	111-48-8	3	Controlled hazardous substance according to list 2B (precursors) annexed to the chemical weapons convention
223	Thionyl chloride or sulfurous oxychloride	7719-09-7	4	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
224	Thiophenol	108-98-5	1	
225	Thiourea	62-56-6	3	Except the part on responsibility of Department of Agriculture
226	n-butyl mercaptan or 1-butanethiol	109-79-5	3	Except the part on responsibility of Food and Drug Administration
227	n-butyl acetate	123-86-4	1	Having concentration >75% w/w
228	n-propyl mercaptan	107-03-9	3	
229	Nickel tetracarbonyl	13463-39-3	4	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
230	Naphthylamine	134-32-7	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
231	Nitric oxide or nitrogen monoxide	10102-43-9	3	
232	Nitrogen dioxide or dinitrogen tetroxide	10102-44-0	1	
233	Nitrogen mustards HN 1: bis (2-chloroethyl ethylamine)	538-07-8	4	Controlled hazardous substance according to list 1A (toxic chemicals) annexed to the chemical weapons convention
234	HN 2: bis (2-chloroethyl) methylamine	51-75-2		
235	NH 3: tris (2-chloroethyl) amine	555-77-1		
236	Nitrosodimethylamine	62-75-9	3	
237	Nitrocyclohexane	1122-60-7	1	
238	Nitrobenzene or oil of mirbane	98-95-3	2	
239	Bis (2-methoxyethyl) ether or diethylene glycol dimethyl ether	111-96-6	3	Risk assessment report shall be submitted to DIW for approval before registration
240	Bis (2-ethylhexyl) phthalate or di-(2-ethylhexyl) phthalate or DEHP	117-81-7	3	
241	Bis (chloromethyl) ether	542-88-1	4	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
242	BZ: 3-quinuclidinyl benzilate	6581-06-2	4	Controlled hazardous substance according to list 2A (precursors) annexed to the chemical weapons convention
243	Beta-propiolactone	57-57-8	3	
244	Benzalkonium chloride or alkylbenzyltrimethylammoniumchloride	8001-54-5	3	Except the part on responsibility of Department of Agriculture, Department of Fisheries, and Food and Drug Administration in the form of surfactant
245	Benzidine	92-87-5	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
246	Benzyl chloride	100-44-7	3	
247	Benzyl cyanide	140-29-4	1	
248	Benzene	71-43-2	3	
249	Benzotrichloride	98-07-7	1	
250	Beryllium oxide	1304-56-9	4	
251	Barium chlorate	13477-00-4	1	
252	Barium chloride	10361-37-2	1	
253	Barium carbonate	513-77-9	1	Except the part on responsibility of Food and Drug Administration
254	Barium sulfide	21109-95-5	1	
255	Barium nitrate	10022-31-8	1	
256	Bromine	7726-95-6	3	
257	Bromochloromethane	74-97-5	4	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
258	Bromoform or tribromomethane	75-25-2	1	
259	Boron trichloride	10294-34-5	3	
260	Boron tribromide	10294-33-4	2	
261	Boron trifluoride	7637-07-2	3	
262	Perchloromethylmercaptan	594-42-3	1	
263	Perchloroethylene or tetrachloroethylene	127-18-4	3	
264	Lead powder	7439-92-1	3	
265	p-cresol or 4-methyl phenol	106-44-5	2	
266	Paraquat dichloride	1910-42-5	3	Except the part on responsibility of Food and Drug Administration
267	Paraformaldehyde	30525-89-4	1	
268	Pinacolyl alcohol : 3,3-dimethylbutane-2-ol	464-07-3	3	Controlled hazardous substance according to list 2B (precursors) annexed to the chemical weapons convention
269	PFC C-318	115-25-3	3	
270	PFC-116	76-16-4	3	
271	PFC-14	75-73-0	3	
272	PFC-218	76-19-7	3	
273	PFC-31-10	355-25-9	3	
274	PFC-41-12	678-26-2	3	
275	PFC-51-14	355-42-0	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
276	PFC-91-18	306-94-5	3	
277	PFIB : 1,1,3,3,3-pentafluoro-2-(trifluoromethyl)-1-propene	382-21-8	4	Controlled hazardous substance according to list 2A (toxic chemicals) annexed to the chemical weapons convention
278	Pentachlorophenol	87-86-5	4	
279	Pentachloroethane	76-01-7	1	
280	Pentadecylamine or pentadecan-1-amine	2570-26-5	1	
281	Permethrin	52645-53-1	3	Except the part on responsibility of Department of Agriculture
282	Potassium silver cyanide	506-61-6	3	
283	Potassium cyanide	151-50-8	3	Having concentration >1% w/w, except the part on responsibility of Food and Drug Administration
284	Potassium fluoride	7789-23-3	1	
285	Potassium arsenite	10124-50-2	1	
286	Potassium hexafluorosilicate	16871-90-2	1	
287	Potassium hydroxide	1310-58-3	1	Having concentration > 20% w/w
288	Propylene oxide or 2-methyl oxirane	75-56-9	3	
289	Propionitrile or ethyl cyanide	107-12-0	1	
290	Polychlorinated terphenyl	61788-33-8	4	
291	Polychlorinated biphenyl	1336-36-3	4	
292	Piperidine	110-89-4	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
293	Pyrene	129-00-0	1	
294	Flumioxazin	103361-09-7	4	Except the part on responsibility of Department of Agriculture
295	Formparanate	17702-57-7	1	
296	Formaldehyde or methanol	50-00-0	2	Except the part on responsibility of Department of Fisheries
297	Formamide	75-12-7	3	
298	Phosgene or carbonyl chloride	75-44-5	3	Controlled hazardous substance according to list 3A (precursors) annexed to the chemical weapons convention
299	Phosphorus (white or yellow, red or black)	7723-14-0	3	
300	Phosphorus sesquisulfide or tetraphosphorus trisulfide	1314-85-8	2	
301	Phosphorus trichloride	7719-12-2	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
302	Phosphorus pentachloride	10026-13-8	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
303	Phosphorus pentasulfide	1314-80-3	3	
304	Phosphorus pentoxide	1314-56-3	3	Having concentration > 30% w/w
305	Phosphorus oxychloride or phosphoryl chloride	10025-87-3	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
306	Phenol	108-95-2	2	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
307	Phenyl glycidyl ether or 1,2-epoxy-3-phenoxy propane or 2-(phenoxymethyl) oxirane	122-60-1	4	
308	Phenylsilatrane	2097-19-0	1	
309	Phenylmercuric oleate	104-60-9	4	
310	Phenylmercury acetate	62-38-4	4	
311	Phenylhydrazinium sulphate	52033-74-6	4	
312	Phenylhydrazine	100-63-0	4	
313	Fenuron	101-42-8	3	Industrial use
314	Ferbam	14484-64-1	3	Industrial use
315	Furfural or 2-furaldehyde	98-01-1	2	
316	Methanethiol or methyl mercaptan	74-93-1	3	
317	<i>m</i> -cresol or 3-methyl phenol	108-39-4	2	
318	Methacrylic anhydride	760-93-0	1	
319	Methacryloyl chloride	920-46-7	1	
320	Methacryloyloxyethyl isocyanate	30674-80-7	1	
321	Methanol or methyl alcohol	67-56-1	1	Except the part on responsibility of Food and Drug Administration
322	Methyl 2-chloroacrylate	80-63-7	3	
323	Methyl chloride or chloromethane	74-87-3	2	Except the part on responsibility of Department of Agriculture
324	Methyl methacrylate	80-26-6	2	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
325	Methyl vinyl ketone	78-94-4	3	
326	Methyl acrylate	96-33-3	2	
327	Methyl acetate	79-20-9	1	
328	Methyl ethyl ketone	78-93-3	3	Having concentration > 50% w/w
329	Methyl ethyl ketone peroxide	1338-23-4	3	
330	Methyl isocyanate	624-83-9	4	
331	Methyl isobutyl ketone	108-10-1	1	
332	Methylhydrazine	60-34-4	3	
333	Methylene chloride or dichloromethane	75-09-2	1	
334	Mercury (II) chloride	7487-94-7	3	Except the part on responsibility of Food and Drug Administration
335	Mercury (II) chromate	13444-75-2	3	Except the part on responsibility of Food and Drug Administration
336	Mercury (II) sulfide	1344-48-5	3	Except the part on responsibility of Food and Drug Administration
337	Mercury (II) thiocyanate	592-85-8	3	Except the part on responsibility of Food and Drug Administration
338	Mercury (II) oxide	21908-53-2	3	Except the part on responsibility of Food and Drug Administration
339	Mercury	7439-97-6	3	Except the part on responsibility of Food and Drug Administration

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
340	Manganese (III) oxide	1317-34-6	1	
341	Manganese (III) phosphate hydrate	104663-56-1	1	
342	Manganese dioxide or manganese (IV) oxide	1313-13-9	1	
343	Mirex	2385-85-5	4	
344	Ricin	9009-86-3	4	Controlled hazardous substance according to list 1A (toxic chemicals) annexed to the chemical weapons convention
345	Lithium hydride	7580-67-8	3	
346	Lewisite		4	Controlled hazardous substance according to list 1A (toxic chemicals) annexed to the chemical weapons convention
	Lewisite 1:2-chlorovinylchloroarsine	541-25-3		
347	Lewisite 2: bis (2-chlorovinyl) chloroarsine	40334-69-8		
348	Lewisite 3: tris (2-chlorovinyl) arsine	40334-70-1		
349	Lead (II) oxide or litharge or massicot	1317-36-8	3	
350	Lead suboxide	12059-89-1	3	
351	Lead sesquioxide of lead (III) oxide	1314-27-8	3	
352	Lead tetroxide	1314-41-6	3	
353	Lead arsenate	7784-40-9	4	
354	Lactonitrile or acetocyanohydrin	78-97-7	3	
355	Vinyl chloride or chloroethene	75-01-4	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
356	Vinyl bromide or bromoethene	593-60-2	3	
357	Vinyl acetate	108-05-4	2	
358	Styrene	100-42-5	2	
359	Octabromobiphenyl	27858-07-7	4	
360	<i>O</i> -cresol or 2-methylphenol	95-48-7	2	
361	<i>o</i> -dichlorobenzene or 1,2-dichlorobenzene	95-50-1	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
362	Auramine or 4,4'-(imidocarbonyl) bis (N,N-dimethylaniline)	492-80-8	3	
363	Acrylyl chloride	814-68-6	3	
364	Acrylonitrile	107-13-1	3	
365	Acrylamide or propenamide	79-06-1	2	
366	Acetylene tetrabromide or 1,1,2,2-tetrabromoethane	79-27-6	1	
367	Acetone	67-64-1	3	Having concentration > 75% w/w
368	Adiponitrile	111-69-3	1	
369	Aniline	62-53-3	3	
370	Allyl chloride or 3-chloro-1-propene	107-05-1	2	
371	Allyl alcohol or 2-propen-1-ol	107-18-6	3	
372	Arsenic	7440-38-2	3	Except the part on responsibility of Food and Drug Administration

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
373	Arsenic trichloride or arsenic (III) chloride	7784-34-1	3	Controlled hazardous substance according to list 2B (precursors) annexed to the chemical weapons convention
374	Arsenic trioxide	1327-53-3	3	Except the part on responsibility of Food and Drug Administration
375	Arsenic pentoxide or arsenic oxide	1303-28-2	3	Except the part on responsibility of Food and Drug Administration
376	EDB or ethylene dibromide	106-93-4	4	
377	Ethanethiol or ethyl mercaptan	75-08-1	3	
378	Epichlorohydrin or 1-chloro-2,3-epoxypropane	106-89-8	2	
379	HCFC-121 or tetrachlorofluoroethane	-	3	
380	HCFC-122 or trichlorodifluoroethane	-	3	
381	HCFC-1236 or dichlorotrifluoroethane	-	3	
382	HCFC-124 or chlorotetrafluoroethane	-	3	
383	HCFC-131 or trichlorodifluoroethane	-	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
384	HCFC-132 or dichlorodifluoroethane	-	3	
385	HCFC-133 or chlorotrifluoroethane	-	3	
386	HCFC-141 or dichlorofluoroethane	-	3	
387	HCFC-142 or chlorodifluoroethane	-	3	
388	HCFC-151 or chlorofluoroethane	-	3	
389	HCFC-21 or dichlorofluoromethane	-	3	
390	HCFC-22 or chlorodifluoromethane	-	3	
391	HCFC-221 or hexachlorofluoropropane	-	3	
392	HCFC-222 or pentachlorodifluoropropane	-	3	
393	HCFC-223 or tetrachlorotrifluoropropane	-	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
394	HCFC-224 or trichlorotetrafluoropropane	-	3	
395	HCFC-225 or dichloropentafluoropropane	-	3	
396	HCFC-226 or chlorohexafluoropropane	-	3	
397	HCFC-231 or pentachlorofluoropropane	-	3	
398	HCFC-232 or tetrachlorodifluoropropane	-	3	
399	HCFC-233 or trichlorotrifluoropropane	-	3	
400	HCFC-234 or dichlorotetrafluoropropane	-	3	
401	HCFC-235 or chloropentafluoropropane	-	3	
402	HCFC-241 or tetrachlorofluoropropane	-	3	
403	HCFC-242 or trichlorodifluoropropane	-	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
404	HCFC-243 or trichlorotrifluoropropane	-	3	
405	HCFC-244 or chlorotetrafluoropropane	-	3	
406	HCFC-251 or trichlorofluoropropane	-	3	
407	HCFC-252 or dichlorodifluoropropane	-	3	
408	HCFC-253 or chlorotrifluoropropane	-	3	
409	HCFC-261 or fluorodichloropropane	-	3	
410	HCFC-262 or chlorodifluoropropane	-	3	
411	HCFC-271 or chlorofluoropropane	-	3	
412	HCFC-31 or chlorofluoromethane	-	3	
413	HFC-125	354-33-6	3	
414	HFC-134	359-35-3	3	
415	HFC-134a	811-97-2	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
416	HFC-143	430-66-0	3	
417	HFC-143a	420-46-2	3	
418	HFC-152	642-72-6	3	
419	HFC-152a	75-37-6	3	
420	HFC-161	353-36-6	3	
421	HFC-227ca	2252-84-8	3	
422	HFC-227ea	431-89-0	3	
423	HFC-23	75-46-7	3	
424	HFC-236cb	677-56-5	3	
425	HFC-236ea	431-63-0	3	
426	HFC-236fa	690-39-1	3	
427	HFC-245ca	679-86-7	3	
428	HFC-245fa	460-73-1	3	
429	HFC-32	75-10-5	3	
430	HFC-365mfc	406-58-6	3	
431	HFC-41	593-53-3	3	
432	HFC-43-10mee	138495-42-8	3	
433	HFC-c-447-ef	15290-77-4	3	
434	Azobenzene or 1,2-diphenyldiazene	103-33-3	3	
435	Ethyl chloride or chloroethane	75-00-3	3	
436	Ethyl acrylate	140-88-5	2	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
437	Ethyl acetate	141-78-6	1	Having concentration >75% w/w
438	Ethylidine diacetate or 1-(acetyloxy) ethyl acetate	542-10-9	4	
439	Ethylene glycol monobutyl ether or 2-butoxyethanol	111-76-2	1	Having concentration >75% w/w
440	Ethylene glycol monomethyl ether or 2-methoxyethanol	109-86-4	1	Having concentration >75% w/w
441	Ethylene glycol monoethyl ether or 2-ethoxyethanol	110-80-5	1	Having concentration >75% w/w
442	Ethylene glycol monoethyl ether acetate or 2-ethoxy ethyl acetate	111-15-9	1	Having concentration >75% w/w
443	Ethylene dichloride or 1,2-dichloroethane	107-06-2	3	Except the part on responsibility of Department of Agriculture and Food and Drug Administration
444	Ethylenediamine or 1,2-diaminoethane	107-15-3	1	
445	Ethyltrichlorosilane	115-21-9	1	
446	Ethylene oxide or oxirane	75-21-8	3	
447	Ethyleneimine or aziridine	151-56-4	3	
448	N,N'-di-n-butyl-1,6-hexanediamine	4835-11-4	1	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
449	N,N-dimethyl-1,2-phenylenediamine	2836-03-5	1	
450	N,N-dimethyl-1,3-phenylenediamine	2836-04-6	1	
451	N,N-dimethyl-1,4-phenylenediamine	99-98-9	1	
452	N,N-dimethylacetamide	127-19-5	3	
453	N-methyldiethanolamine	105-59-9	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
454	N-methylacetamide	79-16-3	4	
455	N-ethyldiethanolamine	139-87-7	3	Controlled hazardous substance according to list 3B (precursors) annexed to the chemical weapons convention
456	Antimony trifluoride or antimony (III) fluoride	7783-56-4	1	
457	Antimony pentafluoride or antimony (V) fluoride	7783-70-2	1	
458	Ammonium fluoride	12125-01-8	1	
459	Ammonium hexafluorosilicate	16919-19-0	1	
460	Ammonium hydroxide	1336-21-6	2	Having concentration >10%
461	Ammonia anhydrous	7664-41-7	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
462	Asbestos	12001-28-4		
463	Crocidolite	12001-29-5	4	
463	Chrysotile	77536-68-6	3	
464	Tremolite	12172-73-5	4	
465	Amosite	77536-66-4	4	
466	Actinolite	77536-67-5	4	
467	Anthophyllite		4	
468	Isobutyronitrile or 2-methylpropanaentitrile	78-82-0	3	
469	Isobutyl mercaptan or 2-methyl-1-propanethiol	513-44-0	2	
470	Isopropyl chloroformate	108-23-6	1	
471	Isophorone diisocyanate	4098-71-9	3	
472	Iron pentacarbonyl	13463-40-6	3	
473	Halon 1211	353-59-3	3	
474	Halon 1301	75-63-8	3	
475	Halon 2402	124-73-2	3	
476	Hexachlorocyclopentadiene	77-47-4	3	
477	Hexachlorobenzene	118-74-1	4	
478	Hexabromobiphenyl	36355-01-8	4	
479	Hexamethylene diisocyanate	822-06-0	3	

List 5.1 Controlled Substances

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
480	Hydroquinone	123-31-9	3	
481	Hydrogen chloride, refrigerated liquid	7647-01-0	3	
482	Hydrogen chloride, anhydrous	7647-01-0	3	
483	Hydrogen sulfide	7783-06-4	3	
484	Hydrogen cyanide	74-90-8	3	Controlled hazardous substance according to list 3A (precursors) annexed to the chemical weapons convention
485	Hydrogen peroxide	7722-84-1	1	Having concentration >15% w/w
486	Hydrogen fluoride, anhydrous	7664-39-3	3	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 5: Responsible by Department of Industrial Works

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Used lubricating oil	-	3	only quantity of more than 20 kilograms or 20 liters and not including the substance of facility which has specific law controls on its treatment or disposal
2	Metal and metal-bearing wastes			
2.1	Metal wastes and waste consisting of alloys of any of the following : Antimony, Arsenic, Beryllium, Cadmium, Lead, Mercury, Selenium, Tellurium, Thallium	-	3	
2.2	Wastes having as constituents or contaminants any of the following : Antimony, Antimony compounds, Beryllium, Beryllium compounds, cadmium, Cadmium compounds Lead, Lead compounds, Selenium, Selenium compounds, Tellurium, Tellurium compounds (not included metal waste in massive form)	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
2.3	Wastes having as constituents or contaminants any of the following : Arsenic, Arsenic compounds, Mercury, Mercury compounds, Thallium, Thallium compounds	-	3	
2.4	Wastes having as constituents any of the following : Metal carbonyls, Hexavalent chromium compounds	-	3	
2.5	Galvanic sludges	-	3	
2.6	Waste liquors from the pickling of metals	-	3	
2.7	Leaching residues from zinc processing, dust and sludges such as jorosite, hermatite, etc.	-	3	
2.8	Waste zinc residues containing lead and cadmium	-	3	
2.9	Ashes from the incineration of insulated copper wire	-	3	
2.10	Dusts and residues from gas cleaning systems of copper smelters	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
2.11	Spent electrolytic solutions from copper electrorefining and electrowinning operations	-	3	
2.12	Waste Sludges from electrolyte purification systems in copper electrorefining and electrowinning operations excluding anode slimes	-	3	
2.13	Spent solutions containing dissolved copper	-	3	
2.14	Waste copper cyanide catalysts and/or cupric chloride	-	3	
2.15	Precious metal ash such as Gold, Silver, Platinum, Palladium, Iridium, Osmium, Rhodium, Ruthenium, etc. from incineration of printed circuit boards	-	3	
2.16	Waste lead-acid batteries, whole or crushed	-	3	
2.17	Unsorted waste batteries	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
2.18	Electrical and electronic assemblies or scrap (not included scrap from electric power generation) containing such as accumulators and other batteries, mercury-switches, glass from cathode-raytubes and other activated glasses and PCB-capacitors, or contaminated with Cadmium, Mercury, Lead Polychlorinated Biphenyl	-	3	
3	Wastes containing principally inorganic constituents, which may contain metals and organic materials			
3.1	Glass waste from cathode-ray tubes and other activated glasses	-	3	
3.2	Waste inorganic fluorine compounds in the form of liquids or sludges	-	3	
3.3	Waste catalysts	-	3	
3.4	Waste gypsum from chemical industry processes	-	3	
3.5	Waste asbestos in the form of dust and fibres	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
3.6	Coal-fired power plant fly-ash	-	3	
4	Wastes containing principally organic constituents, which may contain metals and inorganic materials			
4.1	Wastes from production of petroleum coke and/or bitumen	-	3	
4.2	Waste mineral oils unfit for their originally intended use	-	3	
4.3	Wastes that consist of or are contaminated with leaded anti-knock compound sludges	-	3	
4.4	Waste thermal (heat transfer) fluids	-	3	
4.5	Wastes from production, formulation and use of resins, latex, plasticizers and glues/adhesives	-	3	
4.6	Waste nitrocellulose	-	3	
4.7	Waste phenols, phenol compounds including chlorophenol in the form of liquids or sludges	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
4.8	Waste ethers	-	3	
4.9	Waste leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides	-	3	
4.10	Waste of leather or of composition leather not suitable for the manufacture of leather articles containing hexavalent chromium compounds or biocides	-	3	
4.11	Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances	-	3	
4.12	Fluff-light fraction from shredding	-	3	
4.13	Waste organic phosphorous compounds	-	3	
4.14	Waste non-halogenated organic solvents	-	3	
4.15	Waste halogenated organic solvents	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
4.16	Waste halogenated or unhalogenated non-aqueous distillation residues from organic solvent recovery operations	-	3	
4.17	Wastes from the production of aliphatic halogenated hydrocarbons such as chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and epichlorhydrin	-	3	
4.18	[Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene (PCN) or polybrominated biphenyl (PBB), or any other polybrominated analogues of these compounds, at a concentration level of 50 mg/kg or more	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
4.19	Waste tarry residues from refining, distillation and any pyrolytic treatment of organic materials (excluding asphalt cement)	-	3	
5	Wastes which may contain either inorganic or organic constituents			
5.1	Wastes from the production and use of pharmaceutical products	-	3	
5.2	Wastes from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects	-	3	
5.3	(Wastes from the production, formulation and use of biocides and phytopharmaceuticals, including waste pesticides and herbicides which are off-specification, outdated, or unfit for their originally intended use	-	3	
5.4	Wastes from the manufacture, formulation and use of wood-preserving chemicals excluding chemical-preserved wood	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
5.5	(Wastes that contain, consist of or are contaminated with any of the following : - Organic cyanides - Inorganic cyanides excepting precious-metal-bearing residues such as Gold, Silver, Platinum, Palladium, Iridium, Osmium, Rhodium, Ruthenium in solid form containing traces of inorganic cyanides	-	3	
5.6	Waste oils/water, hydrocarbons/water mixtures and emulsions	-	3	
5.7	Wastes from the production, formulation and use of inks, dyes, pigments, paints, lacquers and varnishes	-	3	
5.8	Wastes of an explosive nature	-	3	
5.9	Wastes acidic or basic solutions with pH less than 2 or greater than 11.5	-	3	
5.10	Wastes from industrial pollution control devices for cleaning of industrial off-gases	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
5.11	Wastes that contain, consist of or are contaminated with any of the following: - Cogenor of Polychlorinated dibenzo-furan - Cogenor of Polychlorinated dibenzo-dioxin	-	3	
5.12	Wastes that contain, consist of or are contaminated with peroxides	-	3	
5.13	Waste packages and containers contaminated with any Chemical Wastes excepting used lubricating oil	-	3	
5.14	Waste consisting of or containing off specification or outdated chemicals	-	3	
5.15	Waste chemical substances from research and development or teaching activities which are not indentified and/or are new and whose effects on human health and/or the environment are not known	-	3	
5.16	Spent activated carbon	-	3	

List 5.2 Chemical Wastes

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
5.17	Bituminous (asphalt waste) from road construction and maintenance which constituent of tar	-	3	
6	Waste metal cables coated or insulated with plastic, containing or contaminated with coal tar, polychlorinated biphenyl (at concentration level of 50 mg/kg or more), lead, cadmium, and other organohalogen compounds	-	3	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 5: Responsible by Department of Industrial Works

List 5.3 Used Electrical and Electronic Appliance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Used electrical and electronic appliance such as refrigerator, television, radio, video, cassette player, air-conditioner, washing machine, clothes dryer, rice cooker, kettle, microwave, oven, telephone, facsimile, telegraph, calculator, type writer, copy machine, mobile phone, computer, printer, arcade games and etc. for reuse or modify, repair, improve, remanufacture for originally intended use or sorting for disposal	-	3	

List 5.3 Used Electrical and Electronic Appliance

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
2	(Part of used electrical and electronic appliance such as refrigerator, television, radio, video, cassette player, air-conditioner, washing machine, clothes dryer, rice cooker, kettle, microwave, oven, telephone, facsimile, telegraph, calculator, type writer, copy machine, mobile phone, computer, printer, arcade games and etc.	-	3	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 5: Responsible by Department of Industrial Works

List 5.4 Others

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	a mixture of :N-[3-hydroxy-2-(2-methylacryloylamino-methoxy) propoxymethyl]-2-methylacrylamide ; {N-[2,3-bis-(2-methylacryloylaminomethoxy) propoxymethyl]-2-methylacrylamide ; methacrylamide ; 2-methyl-N-(2-methyl-acryloylaminomethoxymethyl)-acrylamide ; N-2,3-dihydroxypropoxymethyl}-2-methylacrylamide	-	4	
2	a mixture of : 4-[[bis-(4-fluoro-phenyl)-methylsilyl] methyl]-4H-1,2,4-triazole;1-[[bis-(4-fluorophenyl) methyl-silyl] methyl]-1H-1,2,4-triazole	-	4	
3	Chlorofluorocarbons	-	3	
4	Perfluorocarbons	-	3	
5	Hydrochlorofluorocarbons	-	3	
6	Hydrofluorocarbons	-	3	
7	White oil or refined petroleum oil	-	3	

List 5.4 Others

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
8	Dry cell batteries having mercury and cadmium composition	-	4	

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 5: Responsible by Department of Industrial Works

List 5.5 Chemical Weapons

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	O-alkyl (\leq C10, include cycloalkyl) alkyl (Me, Et, n-Pr or i Pr) – phosphonofluoridates e.g. sarin: O-isopropyl methylphos phonofluoridate soman: O-pinacolyl methylphos phonofluoridate	107-44-8 96-64-0	4	Controlled hazardous substance according to list 1A (Toxic chemicals) annexed to chemical weapons convention
2	O-alkyl (\leq C10, include cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates e.g. tabun: O-ethyl N,N-dimethyl phosphoramidocyanidate	77-81-6	4	Controlled hazardous substance according to list 1A (Toxic chemicals) annexed to chemical weapons convention

List 5.5 Chemical Weapons

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
3	<p>O-alkyl (H or \leq C10, include cycloalkyl) S-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts</p> <p>e.g. VX: O-Ethyl S-2-diisopropyl aminoethyl methyl phosphonothiolate</p>	50782-69-9	4	Controlled hazardous substance according to list 1A (Toxic chemicals) annexed to chemical weapons convention
4	<p>alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides</p> <p>e.g. DF: methylphosphonyldifluoride</p>	676-99-3	4	Controlled hazardous substance according to list 1B (Precursors) annexed to chemical weapons convention
5	<p>[O-alkyl (H or \leq C10, include cycloalkyl) O-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts</p> <p>e.g. QL: O-Ethyl O-2-diisopropylaminoethyl methylphosphonite</p>	57856-11-8	4	Controlled hazardous substance according to list 1B (Precursors) annexed to chemical weapons convention

List 5.5 Chemical Weapons

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
6	amiton : O, O-Diethyl S-[2-(diethylamino) ethyl] phosphorothiolate and corresponding alkylated or protonated salts	78-53-5	4	Controlled hazardous substance according to list 2A (Toxic chemicals) annexed to chemical weapons convention
7	chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms e.g. methylphosphonyl dichloride dimethyl methylphosphonate exemption: fonofos: O-Ethyl S-phenyl thylphosphonothiolothionate	676-97-1 756-79-6 944-22-9	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention
8	N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	-	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention
9	Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-phosphoramidates	-	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention

List 5.5 Chemical Weapons

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
10	N,N-dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts	-	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention
11	N,N-dialkyl (Me, Et, n-Pr or i-Pr)aminoethane-2-ols and corresponding protonated salts Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts N,N-diethylaminoethanol and corresponding protonated salts	108-01-0 100-37-8	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention
12	N,N-dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	-	3	Controlled hazardous substance according to list 2B (Precursors) annexed to chemical weapons convention

List of Hazardous Substance Annexed to the Notification of Ministry of Industry on List of Hazardous Substances B.E. 2556

List 6: Responsible by Department of Energy Business

No.	Name of Hazardous Substance	CAS Number	Type of Hazardous Substance	Condition
1	Natural gas	-	3	Used as fuel only
2	Liquefied petroleum gas	-	3	