

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Article 1 The following Notifications of Ministry of Industry shall be repealed: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

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| 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 | |

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| 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 |

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| 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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|-----|---|------------|-----------------------------|---|
| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 |

List 1.1 Controlled Substances

| 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 |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | Vamidotion | 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 |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 | |

List 1.1 Controlled Substances

| 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 (iprobenfos) 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 | Glucidol 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 | <p>O-alkyl (\leq C10, include cycloalkyl) alkyl (Me, Et, n-Pr or i Pr) – phosphonofluoridates</p> <p>e.g. sarin: O-isopropyl methylphos phonofluoridate</p> <p>soman: O-pinacolyl methylphos phonofluoridate</p> | <p>107-44-8</p> <p>96-64-0</p> | 4 | Controlled hazardous substance according to list 1A (Toxic chemicals) annexed to chemical weapons convention |
| 2 | <p>O-alkyl (\leq C10, include cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates</p> <p>e.g. tabun: O-ethyl N,N-dimethyl phosphoramidocyanidate</p> | 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 | <p>N,N-dialkyl (Me, Et, n-Pr or i-Pr)aminoethane-2-ols and corresponding protonated salts</p> <p>Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts</p> <p>N,N-diethylaminoethanol and corresponding protonated salts</p> | <p>108-01-0</p> <p>100-37-8</p> | 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 | |