

HAZARDOUS SUBSTANCES RULES, 2003

1. Short title and commencement.

- (1) These rules may be called the Hazardous Substances Rules, 2003.
- (2) They shall come into force at once.

2. Definition.

- (1) In these rules, unless there is anything repugnant in the subject or context-
 - (a) “Act” means the Pakistan Environmental Protection Act, 1997 (XXXIV of 1997);
 - (b) “Director-General” means the Director-General of the Federal/Provincial Agency;
 - (c) “EIA” means an environmental impact assessment as defined in clause (xi) of section 2; of the Act.
 - (d) “major accident” means an occurrence resulting from uncontrolled developments during industrial activity or from natural events which is likely to cause an adverse environmental effect, involving substantial loss of life and property;
 - (e) “section” means a section of the Act; and

(f) “worker” shall have the same meaning as defined in clause (h) of section 2 of the Factories Act, 1934 (XXV of 1934).

(2) All other words and expressions used in these rules but not defined shall have the same meanings as are assigned to them in the Act.

3. Substances prescribed as hazardous substances.

As provided in sub-clause (b) of clause (xviii) of section 2, of the Act substances listed in Schedule I are hereby prescribed as hazardous substances.

4. Application for licence.

An application for grant of licence under section 14 shall be filed with the Federal/Provincial Agency in Form A of Schedule II:

Provided that an applicant for grant of licence to import or transport a hazardous substance shall, in addition to information in Form A, also provide details mentioned in sub-rule (1) of Rules 20 and 21 respectively.

5. EIA of project or industrial activity.

(1) An application for grant of licence filed under Rule 4 shall be accompanied by an EIA of the project or industrial activity involving generation, collection, consignment, transport, treatment, disposal, storage, handling or import of a hazardous substance in respect of which the licence is sought.

(2) The EIA submitted by the applicant shall include –

- (a) a safety plan, containing information specified in sub-rule (1) of Rule 17;
- (b) a waste management plan, if hazardous waste will be generated by the project or industrial activity, containing information specified in sub-rule (1) of Rule 19.

6. Applicability of PEPA (Review of IEE and EIA) Regulations, 2000.

The EIA accompanying an application for licence shall be prepared, scrutinized, reviewed and decided in accordance with the provisions of the Pakistan Environmental Protection Agency (Review of IEE and EIA) Regulations, 2000.

7. Issue of Licence.

- (1) Where the Director-General approves an application for licence, the applicant shall be informed accordingly and asked to deposit with the Federal/Provincial Agency licence fees at the rate specified in Schedule III.
- (2) On receipt of the licence fees, the Federal/Provincial Agency shall issue a licence in Form B of Schedule II.
- (3) If a licence is defaced, damaged or lost, duplicate thereof may be issued on payment of such fee as is specified in Schedule III.

8. Conditions of licence.

- (1) A licence granted under section 14 shall be subject to the conditions of approval of the EIA accompanying the application for licence.
- (2) Without prejudice to the provisions of sub-rule (1), a licence granted under section 14 shall also be subject to the following conditions –
 - (a) the licensee shall employ qualified technical personnel having necessary knowledge and experience regarding the use, storage, and handling of the hazardous substance, and safety precautions relating thereto;
 - (b) the hazardous substance shall be packed and labelled in accordance with Rule 9;
 - (c) the premises of the licensee shall comply with the conditions laid down in Rule 10;
 - (d) the licensee shall ensure compliance with the provisions of Rules 11 and 12 regarding safety precautions;
 - (e) the licensee shall provide necessary information, and where required training, to the persons to whom the hazardous substances are sold or delivered, regarding the use, storage and handling of the hazardous substances, and safety precautions relating thereto;
 - (f) the licensee shall maintain a detailed record of the quantity, type, quality and origin of the hazardous substance and the names and

addresses of the persons to whom the hazardous substances are sold or delivered; and

(g) the licensee shall not extend his operation beyond the scope of the project or industrial activity in respect of which the EIA has been submitted and approval granted.

(3) The Federal/Provincial Agency may, in the light of its review of the EIA, require that the licensee maintain adequate insurance cover for any aspect of his operation.

9. Packing and labeling.

(1) A container of a hazardous substance shall be of such size, material and design as to ensure that –

(a) it can be stored, transported and used without leakage, and safely;

(b) the hazardous substance therein does not deteriorate in a manner as to render it more likely to cause, directly or in combination with other substances, an adverse environmental effect.

(2) The following information shall be printed conspicuously, legibly and indelibly on every container of a hazardous substance –

(a) name of the hazardous substance;

(b) name, address and licence number of the licensee;

- (c) net contents (volume or weight);
- (d) date of manufacture and date of expiry, if any;
- (e) a warning statement comprising –
 - (i) the word “DANGER!” in red on a contrasting background;
 - (ii) a picture of a skull and cross-bones;
 - (iii) pertinent instructions for use, storage and handling and safety precautions relating thereto.
- (f) instructions regarding return or disposal of the empty container:

Provided that if the hazardous substance has an inner container as well as an outer container, the information shall be printed on both containers.

Provided further that if it is impracticable to print the aforesaid information on the container itself due to its size, material or design, the same shall be printed on a label or tag which shall be conspicuously affixed or attached to the container in such manner as to render it difficult to remove. Empty chemical containers/drums may not be used for other purposes:

- (g) Basic instructions mentioning immediate steps to be taken in case of any accident or emergency, preferably in local language.

10. Conditions for premises.

The premises in which a hazardous substance is generated, collected, consigned, treated, disposed of, stored or handled shall –

- (a) comply with the conditions specified in Schedule IV; and
- (b) be fitted with a notice on the outer door or gate bearing the following information –
 - (i) the words “DANGER ! HAZARDOUS SUBSTANCE!” in red, on a contrasting background; and
 - (ii) a prominent picture of a skull and cross-bones.

11. General safety precautions.

- (1) A licensee shall ensure that the following safety precautions are conveyed to persons to whom the hazardous substances are sold or delivered–
 - “(a) Carefully read, and follow the instructions and safety precautions printed on the container; (Urdu or local language translation of the same may be preferably given to the local buyers.
 - (b) When opening the container, wear protective clothing and equipment including helmet or cloth cap, safety spectacles or goggles, respirator or mask, rubber or plastic gloves, and work boots, as may be required;

- (c) Avoid contact of the hazardous substance with exposed skin or eyes, and if such contact occurs, wash the exposed area immediately and consult a doctor;
 - (d) Avoid contaminating clothing, gloves and footwear with the hazardous substance, and if such contamination occurs, remove the clothing, gloves and footwear immediately and wash the same thoroughly before reuse;
 - (e) Do not eat, drink or smoke in the vicinity of hazardous substances.”
- (2) The general safety precautions mentioned in sub-rule (1) shall be in addition to such other specific precautions or measures that may be required to be conveyed by the licensee for a particular hazardous substance. The licence holder will be bounded to inform Provincial Agency, the details of his subsequent consignments as the licence will be issued for a period of 3 years section 13 of the rules.

12. Safety precautions for workers.

A licensee shall ensure that the following safety precautions are taken in respect of workers employed by him for handling hazardous substances –

- (a) No worker aged below 18 years or over 60 years shall be employed for any job involving physical handling of hazardous substances.

- (b) All workers shall be thoroughly trained in safety precautions for handling hazardous substances and shall be supervised by qualified supervisors.
- (c) Protective clothing and equipment comprising helmet or cloth cap, safety spectacles or goggles, respirators or masks, rubber or plastic gloves and workboots shall be available for all workers who may be exposed to any hazardous substance, and no worker shall be permitted on job unless and until he is wearing such protective clothing and equipment.
- (d) Adequate supply of water shall be made available to the workers for personal washing as well as for washing their protective clothing and equipment.
- (e) Protective clothing and equipment of the workers shall be washed and cleaned as often as may be required to ensure their efficacy.
- (f) No worker shall be permitted to eat, drink or smoke till he has removed his protective clothing and equipment, washed his hands and face, and left the place of work.
- (g) All fire-fighting, emergency and safety equipment shall be frequently checked and properly maintained.
- (h) First-aid medical facility equipped with required antidotes shall be available in the premises, supervised by trained staff.

- (i) Medical check-up of all workers shall be carried out at the time of employment and at least once a year thereafter.
- (j) A record of every worker shall be maintained containing, amongst other details, his name and address, his medical check-up history, and the hazardous substances handled by him.

13. Validity of licence.

A licence issued under Rule 7 shall be valid for a period of three years from the date of issue:

Provided that if an application for renewal is made under Rule 14, the licence shall continue to remain valid till the application for renewal is decided.

14. Renewal of licence.

- (1) An application for renewal of licence shall also be made to the Federal Agency in Form A of Schedule II, at least 30 days prior to the date of expiry of the licence.
- (2) An application for renewal shall be accompanied by a brief update of the original EIA, unless changes in circumstances require submission of a fresh EIA.
- (3) The fee for renewal of licence shall be the same as for issue of the original licence, and the licence issued on receipt thereof shall also be in Form B of Schedule II.

15. Cancellation of the licence.

- (1) Notwithstanding anything contained in these Rules, if at any time on the basis of information or report received or inspection carried out, the Federal/Provincial Agency is of the opinion that the conditions of the licence have not been complied with, or that the information supplied by the licensee in his application or approved EIA is incorrect, it shall issue notice to the licensee to show cause, within two weeks of receipt thereof, why the licence should not be cancelled.
- (2) If no reply is received or if the reply is considered unsatisfactory, the Federal/Provincial Agency may, after giving the licensee an opportunity of being heard –
 - (i) require the licensee to take such measures and to comply with such conditions within such period as it may specify, failing which the licence shall stand cancelled; or
 - (ii) cancel the licence.
- (3) On cancellation of the licence, the licensee shall cease his operations forthwith.
- (4) Action taken under this Rule shall be without prejudice to any other action that may be taken against the licensee under the Act or rules or regulations or any other law for the time being in force.

16. Entry, inspection and monitoring.

- (1) For purposes of verification of any matter relating to the conditions of the licence, duly authorized staff of the Federal Agency/ Provincial Agency as the case may be, shall be entitled to enter and inspect the premises in which the hazardous substance is being generated, collected, consigned, treated, disposed of, stored or handled:

Provided that the Federal Agency/ Provincial Agency shall inspect the premises at least once a year.

- (2) The licensee shall ensure full cooperation of his staff at the premises to facilitate the inspection mentioned in sub-rule (1).
- (3) The licensee shall provide such information as may be required by the Federal/Provincial Agency for effective monitoring of compliance by the licensee with the conditions of the licence.

17. Safety plan.

- (1) The safety plan to be submitted by an applicant under clause (a) of sub-rule (2) of Rule 5 shall include –
- (a) an analysis of major accident hazards relating to the hazardous substance involved;
- (b) an assessment of the nature and scope of the adverse environmental effects likely to be caused by major accidents;

- (c) a description of the safety equipment and systems installed and safety precautions taken; and
 - (d) a description of the emergency measures proposed to be taken on and off the premises of the applicant to control a major accident, and to mitigate its adverse environmental effect.
- (2) Before issue of the licence, the Federal Agency shall, in consultation with the Provincial Agency concerned and other relevant Government Agencies and the licensee, review the safety plan to ensure that it covers all anticipated contingencies and all emergencies likely to result from a major accident involving the hazardous substance involved, and that the concerned Government Agencies and the licensee are aware of their specific responsibilities thereunder.
- (3) After issue of the licence, the licensee shall ensure that all persons liable to be affected by the approved safety plan are informed of the relevant provisions thereof.

18. Notification of major accident.

- (1) Where a major accident occurs on the premises of a licensee, the licensee shall immediately notify the Federal Agency and the Provincial Agency concerned and shall submit, within 24 hours and weekly thereafter, a report in Schedule V.

- (2) On receipt of the report under sub-section (1), the Federal Agency in coordination with the Provincial Agency concerned shall carry out a detailed analysis of the major accident and initiate necessary action, in accordance with the approved safety plan or otherwise, to control the major accident, mitigate its adverse environmental effect, and prevent it from recurring.

19. Waste management plan.

- (1) The waste management plan, if required to the submitted by an applicant under clause (b) of sub-rule (2) of Rule 5, shall –
 - (a) provide for the generation, collection, transport and disposal of the hazardous waste in a manner which will protect against an adverse environmental effect;
 - (b) ensure that the hazardous waste is not mixed with non-hazardous waste, unless the applicant can prove that such mixing will better protect against an adverse environmental effect.
- (2) The waste management plan shall be reviewed every three years by the licensee to take into consideration the development of new technologies and management practices which can better protect against an adverse

environmental effect, and if required revised waste management plan and fresh EIA shall be submitted with the application for renewal of licence.

- (3) If the waste management plan provides for export of the hazardous waste, such export will only be allowed if it is in accordance with a bilateral, multilateral or regional agreement or arrangement that conforms to the requirements of Article 11 of the Convention on the Control of Transboundary Movements of Hazardous Waste and Their Disposal, Basel, 1989.
- (4) The licensee shall inform the Federal/Provincial Agency on a yearly basis about –
 - (a) the quantity and characteristics of hazardous waste generated in the previous year; and
 - (b) progress regarding implementation of the waste management plan.

20. Import of hazardous substances.

- (1) An applicant for grant of licence to import a hazardous substance shall, in addition to the information contained in Form A of Schedule II, also provide the following details –
 - (i) port of entry into Pakistan;
 - (ii) particulars of transport from exporting country to Pakistan;
 - (iii) quantity of hazardous substance being imported;
 - (iv) complete information pertaining to safety precautions to be adopted; and

- (v) the purpose for which the hazardous substance is to be utilized, alongwith EIA in respect thereof, if required under Rule 5.
- (2) If the licence applied for is granted, the Federal Agency in consultation with the Provincial Agency and port authority concerned, shall ensure that proper steps are taken for safe off-loading, handling and storage of the hazardous substance on arrival at the port.

21. Transport of hazardous substances.

- (1) An application for grant of licence for transport of a hazardous substance shall, in addition to the information contained in Form A of Schedule II, also provide the following details –
 - (i) name and address of the person from whom the hazardous substance is to be collected;
 - (ii) name and address of the person to whom the hazardous substance is to be delivered;
 - (iii) quantity of hazardous substance to be transported;
 - (iv) mode of transport, including full particulars and specifications of the motor vehicles or other conveyance;
 - (v) route to be adopted between the origin and destination; and
 - (vi) date and time of proposed transportation.

- (2) If the licence applied for is granted, the Federal Agency shall ensure that the Provincial Agency and other Government Agencies concerned are informed of the relevant particulars of the transportation, for taking necessary safety precautions and other measures.

22. Other approvals.

Issue of a licence under section 14 read with Rule 7 shall not absolve the licensee of the duty to obtain any other approval or consent that may be required under any law for the time being in force.

SCHEDULE I (See Rule 3)

List of Prescribed Hazardous Substances or Any Other Synthetically Chemical

| S. NO. | NAME OF CHEMICALS | CAS. No |
|--------|---------------------------|------------|
| 1. | Acetaldehyde | 75-07-0 |
| 2. | Acetic acid | 64-19-7 |
| 3. | Acetic anhydride | 108-24-7 |
| 4. | Acetone | 67-64-1 |
| 5. | Acetone cyanohydrin | 75-86-5 |
| 6. | Acetone Thiosemicarbazide | |
| 7. | Acetylene | 74-86-2 |
| 8. | Acetyl chloride | 75-36-5 |
| 9. | Acrolein | 107-02-8 |
| 10. | Acrylamide | 79-06-1 |
| 11. | Acrylonitrile | 107-13-1 |
| 12. | Adiponitrile | 111-69-3 ? |
| 13. | Aldicarb | 116-06-3 ? |
| 14. | Aldrin | 309-00-2 |
| 15. | Allyl alcohol | 107-18-6 |
| 16. | Allyl amine | 107-11-9 ? |

| | | |
|-----|---|-------------|
| 17. | Allyl chloride | 107-05-1 |
| 18. | Amino biphenyl | 92-67-1 |
| 19. | 3-Amino-1, 2,4 triazole | 61-82-5 |
| 20. | Aminopterin | ? |
| 21. | Amiton | 78-83-5 ? |
| 22. | Amiton dialate | ? |
| 23. | Ammonia | 7664-41-7 |
| 24. | Ammonium chloride | 12125-02-9 |
| 25. | Ammonium sulphamate | 7773-06-0 |
| 26. | Aniline | 62-53-3 |
| 27. | Aniline 2,4,6-Trimethyl | |
| 28. | Anthraquinone | 84-65-1 ? |
| 29. | Antimony & Compounds | 7440-36-0 |
| 30. | Arsenic & Compounds | 7440-38-2 |
| 31. | Arsine | 7784-42-1 |
| 32. | Asbestos | 1332-21-4 |
| 33. | Azinpho-ethyl | ? |
| 34. | Azinphos methyl | 86-50-0 |
| 35. | Bacitracin | ? |
| 36. | Barium and Compounds | 513-77-9 |
| 37. | Benzal chloride | 98-87-3 |
| 38. | Benzenamine 3-Trifluoromethyl | |
| 39. | Benzene | 71-43-2 |
| 40. | Benzene sulfonyl chloride | 98-09-9 |
| 41. | Benzene 1- (chloromethyl) –4 Nitro | |
| 42. | Benzene arsenic acid | |
| 43. | Benzidine and Salt | 92-87-5 |
| 44. | Benzimidazole, 4,5-dichloro-2 (Trifluoromethyl) | |
| 45. | Benzyl chloride | 100-44-7 |
| 46. | Beryllium and Compounds | 7440-41-7 |
| 47. | Bis (2-chloroethyl) Sulphide | ? |
| 48. | Bis (chloroethyl) ketone | ? |
| 49. | Bis (Tert-butyl peroxy) cyclohexane | ? |
| 50. | Bis (Tert-butyl peroxy) butane | ? |
| 51. | Bis (2,4,6-Trinitrophenylamine) | ? |
| 52. | Bromo chloro methane | 74-97-5 |
| 53. | Bromoform | 75-25-2 |
| 54. | Butyl amine tert | 75-64-9 |
| 55. | Butyl-n-mercaptan | 109-79-5 |
| 56. | Cadmium and Compounds | 7440-43-9 |
| 57. | Calcium arsenate | 7778-44-1 |
| 58. | Calcium Cyanamide | 156-62-7 |
| 59. | Campechlor Toxaphene) | 8001-35-2 |
| 60. | Cantharidin | ? |
| 61. | Captan | 133-06-2 |
| 62. | Carbachol chloride | ? |
| 63. | Carbaryl | 63-25-2 |
| 64. | Carbofuran | 1563-66-2 |
| 65. | Carbon tetrachloride | 56-23-5 |
| 66. | Carbon disulphide | 75-15-0 |
| 67. | Carbon monoxide | 630-08-0 |
| 68. | Cellulose nitrate | 9004-70-0 ? |
| 69. | Chlordane | 12789-03-6 |

| | | |
|------|--------------------------|------------|
| 70. | Chlorinated benzene | 108-90-7 |
| 71. | Chlorine | 7782-50-5 |
| 72. | Chlorine oxide | 10049-04-4 |
| 73. | Chlorine trifluoride | 7790-9102 |
| 74. | Chloroacetaldehyde | 107-20-0 |
| 75. | Chlorobenzene | 108-90-7 |
| 76. | Chloroform | 67-66-3 |
| 77. | Chloromethyl methylether | 107-30-2 |
| 78. | Chloronitrobenzene | 88-73-3 |
| 79. | Chloroethyle Vinyl ether | 110-75-8 |
| 80. | Chromium and Compounds | 7440-47-3 |
| 81. | Cobalt and Compounds | 7440-48-4 |
| 82. | Copper and compounds | 7440-50-8 |
| 83. | Crotonaldehyde | 123-73-9 |
| 84. | Cumene | 98-82-8 |
| 85. | Cyanides and Compounds | 151-50-8 |
| 86. | Cyclohexane | 110-82-7 |
| 87. | DDT | 50-29-3 |
| 88. | Demeton | 298-03-3 |
| 89. | Dichlorobenzene | 95-50-1 |
| 90. | Dichloroethyl ether | 111-44-4 |
| 91. | Dichlorophenol-2.6 | 87-65-0 |
| 92. | Dichlorophenol-2.4 | 120-83-2 |
| 93. | Dichloropropene-1,3 | 142-28-9 |
| 94. | Dichloroproponic acid | 127-20-8 |
| 95. | Dichlorvos | 62-73-7 |
| 96. | Dieldrin | 60-57-1 |
| 97. | Dimethyl hydrazine | 57-14-7 |
| 98. | Dimethyl phenol 2,4 | 105-67-9 |
| 99. | Dimethylamine | 109-89-7 |
| 100. | Dimethylaniline | 121-69-7 |
| 101. | Dinitrophenol 2-4 | 51-28-5 |
| 102. | Dinitrotoluenes | 121-14-2 |
| 103. | Dinoseb | 88-85-7 |
| 104. | Dinitrobenzene | 528-29-0 |
| 105. | Dioxane-p | 123-91-1 |
| 106. | Dioxathion | 78-34-2 |
| 107. | Diquat | 85-00-7 |
| 108. | Endosulfan | 115-29-7 |
| 109. | Endrin | 72-20-8 |
| 110. | Epichlorohydrine | 106-89-8 |
| 111. | Ethion | 563-12-2 |
| 112. | Ethyl acetate | 141-78-6 |
| 113. | Ethyl benzene | 100-41-4 |
| 114. | Ethyl amine | 75-04-7 |
| 115. | Ethyl ether | 60-29-7 |
| 116. | Ethyl methacrylate | 97-63-2 |
| 117. | Ethylene dichloride | 107-06-2 |
| 118. | Ethylene dibromide | 106-93-4 |
| 119. | Ethylene diamine | 107-15-3 |
| 120. | Ethylene oxide | 75-21-8 |
| 121. | Ethylenimine | 151-56-4 |
| 122. | Fluorine | 7782-41-4 |

| | | |
|------|---|-------------|
| 123. | Formaldehyde | 50-00-0 |
| 124. | Formic acid | 64-18-6 |
| 125. | Furfural | 98-01-1 |
| 126. | Heptachlor | 76-44-8 |
| 127. | Hexachlorobenzene | 118-74-1 |
| 128. | Hexachlorocyclohexan (Lindane) | 608-73-1 |
| 129. | Hexachlorocyclopentadiene | 77-47-4 |
| 130. | Hydrochloric acid | 7647-01-0 |
| 131. | Hydrogen sulphide | 7783-06-4 |
| 132. | Hydrogen cyanide | 74-90-8 |
| 133. | Hydrogen fluoride | 7664-39-3 |
| 134. | Iridium tetrachloride | ? |
| 135. | Isobutyl alcohol | ? |
| 136. | Lead (Inorganic) | 7439-92-1 |
| 137. | Lead arsenate | 7784-40-9 |
| 138. | Lindane | 58-89-9 |
| 139. | Magnesium powder or ribbon | 7439-95-4 ? |
| 140. | Malathion | 121-75-5 |
| 141. | Maleic anhydride | 108-31-6 |
| 142. | Malononitrile | 109-77-3 |
| 143. | Mercury and Compounds | 502-39-6 |
| 144. | Methoxy chloride | |
| 145. | Methyl alcohol | 67-56-1 |
| 146. | Methyl amine | 74-89-5 |
| 147. | Methyl bromide (Bromomethane) | 74-83-9 |
| 148. | Methyl chloride | 74-87-3 |
| 149. | Methyl chloroform (1,1,1-Trichloroethane) | 137-5-3 |
| 150. | Methyl ethyl ketone peroxide | 1338-23-4 |
| 151. | Methyl isocyanate | 624-83-9 |
| 152. | Methyl methacrylate monomer | 80-62-6 |
| 153. | Methyl Parathion | 298-00-0 |
| 154. | Mevinphos | 7786-34-7 |
| 155. | Molybdenum and Compounds | 7439-98-7 |
| 156. | Monocrotophos | 6973-22-4 |
| 157. | Butyl acetate | 123-86-4 |
| 158. | Butyl alcohol | 71-36-3 |
| 159. | Naled | 300-76-5 |
| 160. | Naphthalene | 91-20-3 |
| 161. | Naphthyl amine | 91-51-8 |
| 162. | Nickel salts | 7440-02-0 |
| 163. | Nicotine | 54-11-5 |
| 164. | Nitric acid | 7697-37-2 |
| 165. | Nitric oxide | 10102-43-9 |
| 166. | Nitro benzene | 98-95-3 |
| 167. | Nitrochlorobenzene | 100-00-5 |
| 168. | Nitrocyclohexane | |
| 169. | Nitrogen dioxide | 10102-44-0 |
| 170. | Nitrogen trifluoride | 7783-54-2 |
| 171. | Nitrophenols | 88-75-5 |
| 172. | Nitropropane-2 | 79-46-9 |
| 173. | Nitroso dimethyl amine | 62-75-9 |
| 174. | Cresol | 1319-77-3 |
| 175. | Nitroaniline | 100-01-6 |

| | | |
|------|--|------------|
| 176. | Osmium tetroxide | 20816-12-0 |
| 177. | Oxygen (Liquid) | 7727-37-9 |
| 178. | Oxygen difluoride | 7783-41-7 |
| 179. | Ozone | 10028-15-6 |
| 180. | Paraoxon (diethyl-4 nitrophenyphosphate) | |
| 181. | Parathion | 56-38-2 |
| 182. | Pentaborane | 19624-22-7 |
| 183. | Pentachlorobenzene | 608-93-5 |
| 184. | Pentachlorophenol | 87-86-5 |
| 185. | Pentabromophenol | |
| 186. | Phenol | 108-95-2 |
| 187. | Phenol,2,2-thiobis (4,6-dichloro) | |
| 188. | Phenol,2,2-thiobis (4 chioro 6 methyl phenol) | |
| 189. | Phenol, 3- (1- methyl-ethyl)- methylcarbamate | |
| 190. | Phorate | 298-02-2 |
| 191. | Phosgene | 75-44-5 |
| 192. | Phosphoric acid | 7664-38-2 |
| 193. | Phosphorus | 7723-14-0 |
| 194. | Phosphorus oxychloride | 10025-87-3 |
| 195. | Phosphorus pentasulphide | 1314-80-3 |
| 196. | Phosphorus trichloride | 7719-12-2 |
| 197. | Phthalic anhydride | 85-44-9 |
| 198. | Picric acid (2,4,6-trinitrophenol) | 88-89-1 |
| 199. | Polychlorinated biphenyls (PCBs) | 1336-36-3 |
| 200. | Propionic acid | 79-09-4 |
| 201. | Propargyl alcohol | 107-19-7 |
| 202. | Propylene oxide | 75-56-9 |
| 203. | Pyrethrins | 8003-34-71 |
| 204. | Pyridine | 110-86-1 |
| 205. | Quinone | 106-51-4 |
| 206. | Sodium azide | 26628-22-8 |
| 207. | Sodium fluoro-acetate | 62-74-8 |
| 208. | Sodium hydroxide | 1310-73-2 |
| 209. | Strychnine | 57-24-9 |
| 210. | Styrene | 100-42-5 |
| 211. | Sulfuric acid | 7664-93-9 |
| 212. | Tert- Butyl peroxyacetate | |
| 213. | Tetra ethyl pyrophosphate | 107-49-3 |
| 214. | Tetra nitromethane (Rocket Industry) | 509-14-8 |
| 215. | Tetra-chlorodibenzo-p-dioxin, 1,2,3,7,8 (TCDD) | 1746-01-6 |
| 216. | Tetraethyl lead | 78-00-2 |
| 217. | Thallic oxide | |
| 218. | Titanium powder | 7440-32-6 |
| 219. | Toluene | 108-88-3 |
| 220. | Toluene 2,4-diisocyanate | 584-84-9 |
| 221. | Toxaphene | 8001-35-2 |
| 222. | Trans-1,4-dichloro-butene | |
| 223. | Trichloroethylene | 79-01-6 |
| 224. | Trichlorophenols | 95-95-4 |
| 225. | Trichlorophenoxy acetic acid 2,4,5 triethylamine | 93-76-5 |
| 226. | Trichlorophenol 2,3,6 | 933-75-5 |
| 227. | Trichlorophenol 2,4,5 | 95-95-4 |
| 228. | Triethylamine | 121-44-8 |

| | | |
|------|---|-----------|
| 229. | Triethylene melamine | |
| 230. | Trinitrobenzene | 99-35-4 |
| 231. | Trinitrotoluene (TNT) | 118-96-7 |
| 232. | Turpentine | 8006-64-2 |
| 233. | Uranium and compounds | 7440-61-1 |
| 234. | Vanadium and compounds | 7440-62-2 |
| 235. | Vinyl acetate | 108-05-4 |
| 236. | Vinyl chloride | 75-01-4 |
| 237. | Vinylidene chloride | 75-35-4 |
| 238. | Warfarin | 81-81-2 |
| 239. | Xylene | 1330-20-7 |
| 240. | Xylidine | 1300-73-8 |
| 241. | Zinc chloride | 7646-85-7 |
| 242. | Zirconium and compounds | 7440-67-7 |
| 243. | Any other substance declared hazardous by Pak-EPA | |

**SCHEDULE II
FORM A
(See Rule 4)**

Application for grant/renewal of licence for hazardous substance

I/we [*name(s)* _____] of [*address* _____] hereby apply for grant/
renewal of licence to generate/ collect/ consign/ transport/ treat/ dispose of/ store/ handle/
import (*delete words inapplicable*) the following hazardous substance –

at my/our premises situated at [*address* _____].

I/we have read, and hereby undertake to comply with, all applicable provisions of the
Pakistan Environmental Protection Act, 1997 and rules and regulations made thereunder,
including in particular the Hazardous Substances Rules, 2003.

I/we submit herewith the following documents –

- (i) EIA of the project/industrial activity involving the above-mentioned hazardous substance, including safety plan. Waste management plan is/is not included. [*delete word(s) inapplicable*].
- (ii) Approved building plan of the premises mentioned above.
- (iii) List of machinery and equipment installed/proposed to be installed.
- (iv) List of qualified personnel and number of workers employed/proposed to be employed.

Date: _____

Applicant

**SCHEDULE II
FORM B
(See Rule 7)**

Licence for hazardous substance

M/s [*name* _____] of [*address* _____] is hereby granted licence to generate/collect/consign/transport/treat/dispose of/store/handle/import (*delete words inapplicable*) the following hazardous substance –

at its premises situated at [*address* _____] subject to the conditions specified below –

- 1) the following conditions of approval of the EIA accompanying the application for licence –

- 2) the conditions specified in Rule 8 of the Hazardous Substances Rules, 2003.

- 3) The following additional conditions –

This licence shall be valid for a period of three years from the date given below.

Date: _____

**Director-General
Pakistan Environmental Protection Agency**

SCHEDULE III
(See Rule 7)
Licence fees

SCHEDULE IV
[See Rule 10]

Conditions for premises

1. Location.

The premises should not be located –

- (a) in a congested, residential, commercial or office area;
- (b) in small lanes or bye-lanes;
- (c) close to drinking water sources; or
- (d) in an area liable to flooding.

2. Building.

The building should –

- (a) be soundly constructed with good ventilation and protection against direct sunlight;
- (b) have well-maintained electrical installations;
- (c) have walls protected by non-flammable or slow-burning material;
- (d) have fire-resistant doors fitted with self-closing system;
- (e) have smooth, crack-free floors impermeable to liquids;
- (f) have drains, if absolutely necessary, which do not connect directly with the sewerage system;
- (g) have signs indicating location of emergency exits, escape routes, and fire-fighting equipment, prohibition of smoking, and safety precautions; and
- (h) have proper washing facilities with adequate supply of water.

**SCHEDULE V
(See Rule 17)**

Notification of major accident

Report no. _____

1. Name and address of licensee _____
2. Licence no. and date _____
3. Nature of industrial activity mentioning
Hazardous substance involved. _____

4. Description of major accident –
 - (a) Date and time _____
 - (b) Exact location _____
 - (c) Process/operation during which
accident took place _____
 - (d) Type and circumstances of accident
and estimated quantity of hazardous
substance involved. _____
5. Known causes of the major accident. _____
6. Nature and extent of damage –
 - (a) In the premises; _____
 - (b) Outside the premises. _____
7. Description of emergency measures
already taken. _____
8. Description of further measures proposed
to be taken to –
 - (a) mitigate adverse effects _____
 - (b) prevent recurrence _____
9. Any other relevant information. _____

Date: _____

Time: _____

Licensee