

# The Hazardous Substances Rules, 2014

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Karachi dated the 16<sup>th</sup>, December, 2014.

## NOTIFICATION

**NO.EPA/TECH/739/2014**:- In exercise of the powers conferred by section 36 of the Sindh Environmental Protection Act, 2014, the Sindh Environmental Protection Agency, with the approval of the Government is pleased to make the following rules, namely: -

1. Short title and commencement. (1) These rules may be called the Hazardous Substances Rules, 2014.

(2) They shall come into force at once.

2. Definition. (1) In these rules, unless there is anything repugnant in the subject or context -

(i) "Act" means the Sindh Environmental Protection Act, 2014;

(ii) "Director-General" means the Director-General of the Agency;

(iii) "environmental impact assessment" means an environmental impact assessment as defined in clause (xv) of section 2;

(iv) "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;

(v) "section" means a section of the Act;

(vi) "Schedule" means Schedule to these rules; and

(vii) "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 (xxv) of section 2, substances listed in Schedule-I are hereby prescribed as hazardous substances.

4. Application for licence. An application for grant of licence under section 13 shall be filed with the 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 environmental impact assessment 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 environmental impact assessment 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 shall be generated by the project or industrial activity, containing information specified in sub-rule (1) of rule 19.

6. Applicability of Sindh Environmental Protection Agency (Review of Initial Environmental Examination and Environmental Impact Assessment) Regulations 2014. The environmental impact assessment accompanying an application for grant of licence shall be prepared, scrutinized, reviewed and decided in accordance with the provisions of the Sindh Environmental Protection Agency (Review Initial Environmental Examination and Environmental Impact Assessment) Regulations 2014.

7. Issue of Licence. (1) Where the Director General approves an application for grant of licence, the applicant shall be informed accordingly and directed to deposit with the Agency, a licence fee at the rate specified in Schedule-III.

(2) On receipt of the licence fee, the Agency shall issue a licence in Form-B of Schedule-II.

(3) If a licence is defaced, damaged or lost, duplicate thereof shall be issued on payment of such fee as specified in Schedule-III.

8. Conditions of licence. (1) A licence granted under section 13 shall be subject to the conditions of approval of the environmental impact assessment accompanying the application for licence.

(2) Without prejudice to the provisions of sub-rule(1), a licence granted under section 13 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 labeled 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 environmental impact assessment has been submitted and approval granted.

(2) The Agency may, in the light of its review of the environmental impact assessment, require that the licensee maintain adequate insurance cover for any aspect of his operation.

(3) The licensee shall provide copy of approval from importing country under the international convention and protocol.

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. The empty chemical containers or 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. (1) 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;
- (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.

(2) In case of import of hazardous substances, proponent shall provide approval from Climate Change Division (International Convention Wing) Government of Pakistan.

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 licensee will be bound to inform the Agency, the details of his subsequent consignments as the licence will be issued for a period of one year under section 13.

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 eighteen years or over sixty 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 work-boots 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 one year 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. An application for renewal of licence shall also be made to the Federal Agency in Form-A of Schedule II, at least 30 days before the date of its expiry.

- (i) An application for renewal shall be accompanied by a brief update of the original environmental impact assessment, unless changes in circumstances require submission of a fresh environmental impact assessment.
- (ii) the fee for renewal of licence shall be as provided in Schedule-III, and the licence issued on receipt thereof shall also be in Form-B of Schedule II.
- (iii) the fee for duplicate copy of licence shall be as provided in Schedule-III and the licence issue on the 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 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 environmental impact assessment 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 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 under sub-rule (2), the licensee shall cease his operations forthwith.

(4) The 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 the purposes of verification of any matter relating to the conditions of the licence, duly authorized staff of the Agency 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 Agency shall inspect the premises at least once a year.

(2) The licensee shall ensure 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 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 Agency shall, in consultation with other relevant Government Agencies and Departments including 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, Departments 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 Agency concerned and shall submit within twenty four hours and weekly thereafter, a report in Schedule-V.

(2) On receipt of the report under sub-rule (1), the Agency shall require the licensee to carry out a detailed environmental audit 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 be 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 shall 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 year 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 environmental impact assessment 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 shall 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 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) The applicant shall, for grant of licence to import a hazardous substance in addition to the information contained in Form-A of Schedule II, also provide the following details: -

- (i) port of entry into Province of Sindh;
- (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 environmental impact assessment in respect thereof, if required under rule 5.
- (vi) Licensee shall provide copy of approval from Climate Change Division (International Convention Wing) Government of Pakistan under the provisions of International Convention and Protocol.

(2) If the licence applied for is granted, the concerned Federal Agency or Ministry and the 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) The applicant shall, for grant of licence for transport of a hazardous substance 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;
- (vi) date and time of proposed transportation;
- (vii) nature of waste which may be liquid or solid and its toxicity along with Material and Safety Data Sheet (MSDS); and
- (viii) contingency or emergency response plan.

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

22. Other approvals. The issuance of a licence under section 13 read with rule 7 shall not absolve the licensee to obtain any other approval or consent that may be required under any law for the time being in force.

DIRECTOR GENERAL  
SINDH ENVIRONMENTAL PROTECTION AGENCY

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 cyanohydrins	75-86-5

S. NO.	NAME OF CHEMICALS	CAS. NO
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	?

S. NO.	NAME OF CHEMICALS	CAS. NO
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.	Camphechlor 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

S. NO.	NAME OF CHEMICALS	CAS. NO
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.	Dichloropropionic 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

S. NO.	NAME OF CHEMICALS	CAS. NO
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.	M ethyl 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

S. NO.	NAME OF CHEMICALS	CAS. NO
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-trnitrophenol)	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



S. NO.	NAME OF CHEMICALS	CAS. NO
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 Sindh 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

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at my/our premises situated at [address \_\_\_\_\_].

I/we have read, and hereby undertake to comply with, all applicable provisions of the Sindh Environmental Protection Act, 2014 and rules and regulations made thereunder, including and in particular the Hazardous Substances Rules, 2014.

I/we submit herewith the following documents: -

- (i) Environmental Impact Assessment (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 –

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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, 2014.
- 3) The following additional conditions –
- 

This licence shall be valid for a period of one year from the date given below.

Date: \_\_\_\_\_

Director-General  
Sindh Environmental  
Protection Agency

SCHEDULE III  
(see Rule 7)  
Licence fees

Description	Fee
Licence Fee	Rs.50,000
Renewal Fee	Rs.25,000
Duplicate Fee	Rs. 10,000

SCHEDULE IV  
(see rule 10)

## Conditions for premises

### 1. Location

The premises shall 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 shall -

- (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 18)

### Notification of major accident

Report no. \_\_\_\_\_

1. Name and address of licensee \_\_\_\_\_

2. Licence no. and date \_\_\_\_\_

Nature of industrial activity mentioning Hazardous substance involved.

\_\_\_\_\_

3. 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. \_\_\_\_\_

4. Known causes of the major accident.

\_\_\_\_\_

5. Nature and extent of damage –

(a) In the premises; \_\_\_\_\_

(b) Outside the premises. \_\_\_\_\_

6. Description of emergency measures already taken.

\_\_\_\_\_

7. Description of further measures proposed to be taken to –

(a) mitigate adverse effects \_\_\_\_\_

(b) prevent recurrence \_\_\_\_\_

8. Any other relevant information. \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Licensee

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