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भाग 4 (ग)

राजस्थान राज-पत्र, जून 17, 1993

31 (3)

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उपयोग, उपभोग अथवा विक्रयार्थ लाया जावे पर अधिसूचना के राजस्थान राज-पत्र में प्रकाशन की तिथि से उनके सम्मुख अंकित निर्दिष्ट दर के अनुसार चुंगी कर वसूल किया जावेगा:—

अनुसूची

क्र. सं.	नाम वस्तु	दर प्रति
1.	चीनी, खांडसारी, मिश्री, पताशा, मुत्तरी	2.00 प्रति क्विंटल
2.	गुड़	2.00 प्रति क्विंटल
3.	ऊन व रुई	5.00 प्रति क्विंटल
4.	दवाई	2.00 प्रति सैंकड़ा
5.	कपड़ा (समस्त प्रकार का)	1.50 प्रति सैंकड़ा
6.	चाय	2.00 प्रति सैंकड़ा
7.	मनिहारी	2.00 प्रति सैंकड़ा

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[सं. टैक्स/एफ. 99 (5) डी.एल.बी./64/1289]

आज्ञा से,

जी. के. गोस्वामी,

उप शासन सचिव।

LABOUR DEPARTMENT

NOTIFICATION

Jaipur, June 7, 1993

G. S. R. 13:--In exercise of the powers conferred by section 112 of the Factories Act, 1948 (Central Act 63 of 1948) the State Government hereby makes the following Rules, the same have been previously published in Rajasthan Gazette part 3 (kha) dated 14 November, 1992 as required by section 115 of the said Act, namely:—

नियम
रहे हुए
राज-
प्रांशिक
नान्तर्गत

RULES

1. Short title and Commencement :-- (i) These rules may be called the Rajasthan Control of Industrial Major Accident Hazards Rules, 1991.

(ii) They shall come into force from the date of publication.

(iii) These rules supplement the rules already notified under the Factories Act, 1948.

2. Definitions.—In these Rules, unless the context otherwise requires,—

(a) “hazardous chemical” means,—

(i) any chemical which satisfies any of the criteria laid down in Part I of Schedule 1 and is listed in Column 2 of Part II of this Schedule; or

(ii) any chemical listed in Column 2 of Schedule 2; or

(iii) any chemical listed in Column 2 of Schedule 3;

(b) “industrial activity” means,—

(i) an operation or process carried out in an industrial installation referred to in Schedule 4 involving or likely to involve one or more hazardous chemicals and includes on-site storage or on-site transport which is associated with that operation or process as the case may be; or

(ii) isolated storage;

(c) “isolated storage” means storage where no other manufacturing process other than pumping of hazardous chemical is carried out and that storage involves at least a quantity of that chemical set out in Schedule 2, but does not include storage associated with an installation specified in Schedule 4 on the same site.

(d) “major accident” means an occurrence (including in particular, a major emission, fire or explosion) involving one or more hazardous chemicals and resulting from

uncontrolled developments in the course of an industrial activity or owing to natural events, leading to a serious danger to persons, whether immediate or delayed, inside or outside the installation or damage to property or adverse effects on the environment;

(e) "pipeline" means a pipe (together with any apparatus and works associated therewith), or system of pipes (together with any apparatus and works associated therewith), for the conveyance of a hazardous chemical, other than a flammable gas as set out in Column 2 of Part II of Schedule 3 at a pressure of less than 8 bars absolute;

(f) "schedule" means Schedule appended to these Rules;

(g) "site" means any location where hazardous chemicals are manufactured or processed, stored, handled, used, disposed off and includes the whole of an area under the control of occupier;

(h) Words and expressions not defined in these Rules but defined or used in the Factories Act, 1948 and the Rules made thereunder have the same meaning as assigned therein.

3. Collection development and dissemination of information.—(1) This Rule shall apply to an industrial activity in which a hazardous chemical which satisfies any of the criteria laid down in Part I of Schedule 1 and is listed in Column 2 of Part II of this Schedule is or may be involved.

(2) An occupier, who has control of an industrial activity in terms of sub-rule (1) of this Rule, shall arrange to obtain or develop detailed information on hazardous chemical in the form of a material safety data sheet as indicated in schedule 5. The information shall be accessible to workers upon request for reference.

(3) The occupier while obtaining or developing a material safety data sheet as indicated in Schedule 5 in respect of a hazardous chemical handled by him shall ensure that the information is recorded accurately and reflects the scientific evidence used in making the hazard determination. In case, any significant information regarding hazard of a chemical is available, it shall be added to the material safety data sheet as indicated in Schedule 5 as soon as practicable.

(4) Every container of a hazardous chemical shall be clearly labelled or marked to identify,—

- (a) the contents of the container;
- (b) the name and address of the manufacturer or importer of the hazardous chemical; and
- (c) the physical, chemical and toxicological data of the hazardous chemical.

(5) In terms of sub-rule (4) of this Rule where it is impractical to label a chemical in view of the size of the container or the nature of the package, provision should be made for other effective means like tagging or accompanying documents.

4. General responsibility of the occupiers.—(1) This Rule shall apply to,—

- (a) an industrial activity, other than isolated storage, in which a hazardous chemical which satisfies any of the criteria laid in Part I of Schedule 1 and is listed in Column 2 of Part II of this Schedule therein is or may be involved; and
- (b) isolated storage in which there is involved a quantity of a hazardous chemical listed in Column 2 of Schedule 2 which is equal to or more than the quantity specified in the Schedule for that chemical in Column 3 thereof,

(2) An occupier who has control of an industrial activity in terms of sub-rule (1) of this Rule shall provide evidence to show that he has—

(a) identified the major accident hazards; and

(b) taken adequate steps to—

(i) prevent such major accidents and to limit their consequences to persons and the environment; and

(ii) Provide the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety.

5. Notification of major accidents.—(1) Where a major accident occurs on a site, the occupier shall forthwith notify the Inspector and the Chief Inspector of that accident, and furnish thereafter to the Chief Inspector a report relating to the accident in instalments, if necessary, in Schedule 6.

(2) The Chief Inspector shall on receipt of the report in accordance with sub-rule (1) of this Rule, shall undertake a full analysis of the major accident and send the requisite information to the Directorate General Factory Advice Service and Labour Institutes (DGFASLI) and the Ministry of Labour through appropriate channel.

6. Industrial activities to which Rules 7 to 15 apply.—(1) (a) Rules 7 to 9 and 13 to 15 shall apply to an industrial activity, other than isolated storage, in which there is involved a quantity of a hazardous chemical listed in Column 2 of Schedule 3 which is equal to or more than the quantity specified in the entry for that chemical in column 3;

(b) Rules 10 to 12 shall apply to an industrial activity other than isolated storage, in which there is involved a quantity of a hazardous chemical listed in Column 2 of Schedule 3 which is equal to or more than the quantity specified in the entry for that chemical in Column 4;

(c) Rules 7 to 9 shall apply to an isolated storage in which there is involved a quantity of a hazardous chemical listed in column 2 of Schedule 2 which is equal to or more than the quantity specified in the entry for that chemical in Column 3; and.

(d) Rules 10 to 15 shall apply to an isolated storage in which there is involved a quantity of a hazardous chemical listed in column 2 of Schedule 2 which is equal to or more than the quantity specified in the entry for that chemical in Column 4.

(2) For the purposes of Rules 7 to 15—

(a) a "new industrial activity" means an industrial activity which—

(i) was commenced after the date of coming into operation of these Rules; or

(ii) if commenced before that date, is an industrial activity in which there has been since that date a modification which would be likely to have important implications for major accident hazards, and that activity shall be deemed to have been commenced on the date on which the modification was made; and

(b) an "existing industrial activity" means an industrial activity which is not a new industrial activity.

7. Notification of industrial activities—(1) An occupier shall not undertake any industrial activity unless he has submitted a written report to the Chief Inspector containing the particulars specified in Schedule 7 at least 3 months before commencing that activity or before such shorter time as the Chief Inspector may agree and for the purposes of this sub-rule, an activity in which subsequently there is or is liable to be a quantity given in column 3 of

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Schedules 2 and 3 or more of an additional hazardous chemical shall be deemed to be a different activity and shall be notified accordingly.

(2) No report under sub-rule (1) of this Rule need to be submitted by the occupier, if he submits a report under Rule 10 (1).

8. Updating of the notification under Rule 7.—Where an activity has been reported in accordance with Rule 7(1) and the occupier makes a change in it (including an increase or decrease in the maximum quantity of a hazardous chemical to which this Rule applies which is or is liable to be at the site or in the pipeline or the cessation of the activity) which affects the particulars specified in that report or any subsequent report made under this Rule, the occupier shall forthwith furnish a further report to the Chief Inspector.

9. Transitional provision.—Where,—

(a) at the date of coming into operation of these Rules, an occupier who is in control of an existing industrial activity which is required to be reported under Rule 7 (1); or

(b) within 6 months after that date an occupier commences any such new industrial activity;

it shall be a sufficient compliance with that Rule if he reports to the Chief Inspector as per the particulars in Schedule 7 within 3 months after the date of coming into operation of these Rules or within such longer time as the Chief Inspector may agree in writing.

10. Safety Reports.—(1) Subject to the following sub-rules of this Rule, an occupier shall not undertake any industrial activity to which this Rule applies, unless he has prepared a safety report on that industrial activity containing the information specified in Schedule 8 and has sent a copy of that report to the Chief Inspector at last 3 months before commencing that activity.

(2) In the case of a new industrial activity which an occupier commences, or by virtue of sub-rule (2) (a) (ii) of Rule 6 is deemed to commence, within 6 months after coming into operation of these Rules, it shall be a sufficient compliance with sub-rule (1) of this Rule if the occupier sends to the Chief Inspector a copy of the report required in accordance with that sub-rule within 3 months after the date of coming into operation of these Rules.

(3) In the case of an existing industrial activity, until five years from the date of coming into operation of these Rules, it shall be a sufficient compliance with sub-rule (1) of this Rule if the occupier on or before 3 months from the date of the coming into the operation of these Rules sends to the Chief Inspector the information specified in Schedule 7 relating to that activity.

11. Updating of reports under Rule 10.—(1) Where an occupier has made a safety report in accordance with sub-rule (1) of Rule 10, he shall not make any modification to the industrial activity to which that safety report relates which could materially affect the particulars in that report, unless he has made a further report to take account of those modifications and has sent a copy of that report to the Chief Inspector at least 3 months before making those modifications.

(2) Where an occupier has made a report in accordance with Rule 10 and sub-rule (1) of this Rule and that industrial activity is continuing, the occupier shall within three years of the date of the last such report, make a further report which shall have regard in particular to new technical knowledge which has affected the particulars in the previous report relating to safety and hazard assessment, and shall within 1 month or in such longer time as the Chief Inspector may agree in writing, send a copy of the report to the Chief Inspector.

12. Requirements for further information.—Where in accordance with Rule 10 (1), an occupier has sent a safety report relating to an industrial activity to the Chief Inspector, the Chief

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Inspector may, by a notice served on the occupier, require him to provide such additional information as is specified in the notice and the occupier shall send that information to the Chief Inspector within such time as is specified in the notice or within such extended time as the Chief Inspector may subsequently specify.

13. Preparation of on-site emergency plans by the occupiers.— (1) An occupier who has control of an industrial activity to which this Rule applies shall prepare in consultation with the Chief Inspector, keep up to date and furnish to the Chief Inspector and the Inspector an on-site emergency plan detailing how major accidents will be dealt with on the site on which the industrial activity is carried on and that plan shall include the name of the person who is responsible for safety on the site and the names of those who are authorised to take action in accordance with the plan in case of an emergency.

(2) The occupier shall ensure that the emergency plan prepared in accordance with sub-rule (1) of this Rule, takes into account any modification made in the industrial activity and that every person on the site who is affected by the plan is informed of its relevant provisions.

(3) The occupier shall prepare for emergency plan required under sub-rule (1) of this Rule:—

(a) in the case of a new industrial activity, before that activity is commenced; except that, in the case of a new industrial activity which is commenced or is deemed to have been commenced before a date 3 months after the coming into operation of these Rules, by that date; or

(b) in the case of an existing industrial activity within 3 months of coming into operation of these Rules,

14. Preparation of off-site emergency plans.—(1) It shall be the duty of the District Collector or the District Emergency

Authority designated by the State Government in whose area there is a site on which an occupier carries on an industrial activity to which this Rule applies, to prepare and keep up to date an adequate off-site emergency plan detailing how emergencies relating to a possible major accident on that site will be dealt with and in preparing that plan the Authority shall consult the occupier, the Chief Inspector and such other persons as appear to the Authority to be appropriate.

(2) The occupier shall provide the District Collector or the District Emergency Authority with such information relating to the industrial activity under his control as may be necessary to enable the District Collector or the District Emergency Authority to prepare an off-site emergency plan under sub-rule (1) of this Rule including the nature, extent and likely effects off-site of possible major accidents as well as any additional information as the District Collector or the District Emergency Authority may require in this regard.

(3) The District Collector or the District Emergency Authority shall provide the occupier with information from the off-site emergency plan which relates to his duties under Rule 13 or sub-rule (2) of this Rule.

(4) The District Collector or the District Emergency Authority shall prepare its emergency plan for any industrial activity required under sub-rule (1) of this Rule—

- (a) in the case of a new industrial activity, before that activity is commenced;
- (b) in the case of an existing industrial activity, within 6 months of its being notified by the occupier of the industrial activity.

15. Information to be given to persons liable to be affected by a major accident.—(1) The occupier shall take appropriate steps to inform persons outside the site who are likely to be in an

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area which might be affected by a major accident at any site on which an industrial activity under his control to which this Rule applies is carried on either directly or through the District Emergency Authority about—

- (a) the nature of the major accident hazard; and
- (b) the safety measures and the correct behaviour which should be adopted in the event of a major accident.

(2) The occupier shall take the steps required under sub-rule (1) of this Rule to inform persons about an industrial activity, before that activity is commenced, except that, in the case of an existing industrial activity in which case the occupier shall comply with the requirements of sub rule (1) of this Rule within 3 months of coming into operation of these Rules.

16. Disclosure of information notified under these Rules.—Where for the purpose of evaluating information, notified under Rule 5 or Rules 7 to 15, the Inspector or the Chief Inspector or the District Emergency Authority discloses that information to Some other person, that other person shall not use that information for any purpose except a purpose of the Inspector or the Chife Inspector or the District Emergency Authority disclosing it, as the case may be, and before disclosing that information the Inspector or the Chief Inspector or the District Emergency Authority, as the case may be, shall inform that other person of his obligations under this Rule.

17. Improvement notice.—(1) If an Inspector is of the opinion that at occupier—

- (a) is contravening one or more of these Rules; or
- (b) has contravened one or more of these Rules in circumstances that make it likely that the contravention will continue or be repeated,

he may serve on him a notice (in this Rule referred to as "an improvement notice") stating that he is of that opinion, specifying the Rule or Rules as to which he is of that opinion, giving particulars of the reasons why he is of that opinion, and requiring that occupier to remedy the contravention or, as the case may be, the matters occasioning it within such period as may be specified in the notice.

(2) A notice served under sub-rule (1) of this Rule may (but need not) include directions as to the matters to be taken by the occupier to remedy any contravention or matter to which the notice relates.

18. Power of the State Government to modify the Schedules.—The State Government may, at any time, by notification in the Official Gazette, make suitable changes in the Schedules.

SCHEDULE-1

[See Rules 2 (a) (i), 3 (1), 4 (1) (a) and 4 (2) (1)]

Indicative Criteria and List of Chemicals

Indicative Criteria

Part I

(a) **Toxic Chemicals:**—Chemicals having the following values of acute toxicity and which, owing to their physical and chemical properties, are capable of producing major accident hazards.

S. No.	Degree of Toxicity	LD50 absorbed orally in rats mg/kg. body weight	LD50 by cutaneous absorption in rats or rabbits mg./kg. body weight	LC50 absorbed by inhalation (4 hours) in rats mg./litre
1.	Extremely toxic	≤ 50	≤ 200	0.1—0.5
2.	Highly toxic	51—500	201—2000	0.5—2.0

(b) **Flammable Chemicals:**—(i) Flammable gases. Chemicals which in the gaseous state at normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20 degree C or below ;

(ii) highly flammable liquids :—Chemicals which have a flash point lower than 23 degree C and the boiling point of which at normal pressure is above 20 degree C;

(iii) Flammable liquids:—Chemicals which have a flash point lower than 65 degree C and which remain liquid under pressure, where particular processing conditions, such as high pressure and high temperature, may create major accident hazards.

(c) **Explosives:**—Chemicals which may explode under the effect of flame, heat or photo-chemical condition or which are more sensitive to shocks or friction than dinitrobenzene.

SCHEDULE 1 (Continued)

PART—II LIST OF HAZARDOUS CHEMICALS

Sl. No.	Name of the Chemical
(Column-1)	(Column-2)
1. Acetone	
2. Acetone Cyanohydrine	
3. Acetyl Chloride	
4. Acetylene (Ethyne)	
5. Acrolein (2-Propenal)	
6. Acrylonitrile	
7. Aldicarb	
8. Aldrine	
9. Alkyl phthalate	
10. Allyl Alcohol	
11. Allylamine	
12. Alpha Naphthyl Thiourea ANTU	

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13.	4-Aminodiphenyl	47
14.	2-Aminophenol	48
15.	Amiton	49
16.	Ammonia	50
17.	Ammonium Nitrate	51
18.	Ammonium Nitrate in fertilizers	52
19.	Ammonium Sulfamate	53
20.	Anabasine	54
21.	Aniline	55
22.	P-Anisidine	56
23.	Antimony & Compounds	57
24.	Antimony Hydride (Stibine)	58
25.	Arsenic Hydride (Arsine)	59
26.	Arsenic Pentoxide, Arsenic (V) Acid & Salts	60
27.	Arsenic Trioxide, Arsenious (III) Acids & Salts	61
28.	Asbestos	62
29.	Azinphos-Ethyl	63
30.	Azinphos-Methyl	64
31.	Barium Azide	65
32.	Benzene	66
33.	Benzidine	67
34.	Benzidine Salts	68
35.	Benzoquinone	69
36.	Benzoyl Chloride	70
37.	Benzoyl Peroxide	71
38.	Benzyl Chloride	72
39.	Benzyl Cyanide	73
40.	Berrllium (Powders, Compounds)	74
41.	Biphenyl	75
42.	Bis (2-Chloromethyl) Ketone	76
43.	Bis (2, 4, 6-Trinitrophenyl) Amine	77
44.	Bis (2-Chloroethyl) Sulphide	78
45.	Bis (Chloromethyl) Ether	79
46.	2, 2-Bis (tert-Butylperoxy) Butane	80

47. 1, 1-Bis (tert-Butylperoxy) Cyclohexane
48. Bis-1, 2 (Tribromophenoxy)-Ethane
49. Bisphenol
50. Boron & Compounds
51. Bromine
52. Bromine Pentafluoride
53. Bromoform
54. 1, 3-Butadiene
55. Butane
56. N-Butanethiol
57. 2-Butanone
58. Butoxy Ethanol
59. Butyl Glycidal Ether
60. tert-Butyl Peroxyacetate
61. tert-Butyl Peroxyisobutyrate
62. tert-Butyl Peroxyisopropyl Carbonate
63. tert-Butyl Peroxymaleate
64. tert-Butyl Peroxypivalate
65. Butyl Vinyl Ether
66. Butylamine
67. C9-Aromatic Hydrocarbon Fraction
68. Cadmium & Compounds
69. Cadmium Oxide (fumes)
70. Calcium Cyanide
71. Captan
72. Captofol
73. Carbaryl (Sevin)
74. Cabofuran
75. Carbon Disulphide
76. Carbon Monoxide
77. Carbon Tetrachloride
78. Carbophenothion
79. Cellulose Nitrate
80. Chlorates (use in explosives)

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81.	Chlordane		11
82.	Chlorfenvinphos		11
83.	Chlorinated Benzenes		11
84.	Chlorine		11
85.	Chlorine Dioxide		11
86.	Chlorine Oxide		11
87.	Chlorine Trifluoride		12
88.	Chlormequate Chloride		12
89.	Chloroacetal Chloride		12
90.	Chloroacetal dehyde		12
91.	2-Chloroaniline		12
92.	4-Chloroaniline		12
93.	Chlorobenzene		12
94.	Chlorodiphenyl		12
95.	Chloroepoxypropane		12
96.	Chloroethanol		12
97.	Chloroethyl Chloroformate		13
98.	Chlorofluorocarbons		13
99.	Chloroform		13
100.	4-(Chloroformyl), Morpholine		13
101.	Chloromethane		13
102.	Chloromethyl ether		13
103.	Chloronitrobenzene		13
104.	Chloroprene		13
105.	Chlorosulphonic Acid		13
106.	Chlorotrinitrobenzene		13
107.	Chloroxuron		14
108.	Chromium & Compounds		14
109.	Cobolt & Compounds		14
110.	Copper & Compounds		14
111.	Coumafuryl		14
112.	Coumaphos		14
113.	Coumatetralyl		14
114.	Cresols		14

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115. Crimidine
116. Cumene
117. Cyanophos
118. Cyanothoate
119. Cyanuric Fluoride
120. Cyclohexane
121. Cyclohexanol
122. Cyclohexanone
123. Cycloheximide
124. Cyclopentadiene
125. Cyclopentane
126. Cyclotetramethylenetetranitramine
127. Cyclotrimethylenetrinitramine
128. DDT
129. Decabromodiphenyl Oxide
130. Demeton
131. Di-Isobutyryl peroxide
132. Din-propyl Peroxydicarbonate
133. Di-sec-Butyl Peroxydicarbonate
134. Dialifos
135. Diazodinitrophenol
136. Diazomethane
137. Dibenzyl Peroxydicarbonate
138. Dichloroacetylene
139. O-Dichlorobenzene
140. P-Dichlorobenzene
141. Dichloroethane
142. Dichloroethyl Ether
143. 2,4-Dichlorophenol
144. 2,6-Dichlorophenol
145. 2,4-Dichlorophenoxy Acetic Acid, (2,4-D)
146. 1,2-Dichloropropane
147. 3,5-Dichlorosalicylic Acid
148. Dichlorovos (DDVP)

1	2	3	4
149.	Dicrotophos		184.
150.	Dieldrin		185.
151.	Diepoxybutane		186.
152.	Diethyl Peroxydicarbonate		187.
153.	Diethylene Glycol Dinitrate		188.
154.	Diethylene Triamine		189.
155.	Diethyleneglycol Butyl Ether/Diethyleneglycol Butyl Acetate		190.
156.	Diethylenetriamine (DETA)		191.
157.	Diglycidyl Ether		192.
158.	2,2-Dihydroperoxypropane		193.
159.	Diisobutyl Peroxide		194.
160.	Dimefox		195.
161.	Dimethoate		196.
162.	Dimethyl Phosphoramidocyanidic Acid		197.
163.	Dimethyl Phthalate		198.
164.	Dimethylcarbomoyl Chloride		199.
165.	Dimethylnitrosamine		200.
166.	Dinitrophenol, Sdts		201.
167.	Dinitrotoluene		202.
168.	Dinitro-o-Cresol		203.
169.	Dioxolane		204.
170.	Dioxathion		205.
171.	Dioxolane		206.
172.	Diphacinone		207.
173.	Diphosphoramidate Octamethyl		208.
174.	Dipropylene Glycolmethylether		209.
175.	Disulfoton		210.
176.	Endosulfan		211.
177.	Endrin		212.
178.	Epichlorohydrine		213.
179.	EPN		214.
180.	1,2-Epoxypropane		215.
181.	Ethion		216.
182.	Ethyl Carbamate		217.
183.	Ethyl Ether		

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184. 2-Ethyl Hexanol
185. Ethyl Mercaptan
186. Ethyl Methacrylate
187. Ethyl Nitrate
188. Ethylamine
189. Ethylene
190. Ethylene Chlorohydrine
191. Ethylene Diamine
192. Ethylene Dibromide
193. Ethylene Dichloride
194. Ethylene Glycol Dinitrate
195. Ethylene Oxide
196. Ethylene imine
197. Ethylthiocyanate
198. Fensulphothion
199. Fluenetil
200. 4-Fluoro, 2-Hydroxybutyric Acid & Salts, Esters, Amides
201. Fluoroacetic Acid & Salts, Esters, Amides
202. 4-Fluorobutyric Acid & Salts, Esters, Amides
203. 4-Fluorochloroacetic Acid & Salts, Esters, Amides
204. Formaldehyde
205. Glyconitrile (Hydroxyacetonitrile)
206. 1-Guanyl-4-Nitrosaminoguanyl-1-Tetrazene
207. Heptachlor
208. Hexachloro Cyclopentadiene
209. Hexachlorocyclohexane
210. Hexachlorocyclomethane
211. 1, 2, 3, 7, 8, 9-Hexachlorodibenzo-o-Dioxine
212. Hexafluoropropene
213. Hexamethylphosphoramide
214. 3, 3, 6, 6, 9, 9-Hexamethyl-1, 2, 4, 5-Tetroxacyclononane
215. Hexamethylenediamine
216. Hexane
217. 2,2', 4,4', 6,6'-Hexanitrostilbene

1	2	3	4	5
218.	Hexavalent Chromium			252.
219.	Hydrazine			253.
220.	Hydrazine Nitrate			254.
221.	Hydrochloric Acid			255.
222.	Hydrogen			256.
223.	Hydrogen Bromide (Hydrobromic Acid)			257.
224.	Hydrogen Chloride (Liquefied Gas)			258.
225.	Hydrogen Cyanide			259.
226.	Hydrogen Fluoride			260.
227.	Hydrogen Selenide			261.
228.	Hydrogen Sulphide			262.
229.	Hydroquinone			263.
230.	Iodine			264.
231.	Isobenzan			265.
232.	Isodrin			266.
233.	Isophorone Diisocyanate			267.
234.	Isopropyl Ether			268.
235.	Juglone (5-Hydroxynaphthalene-1, 4-Dione)			269.
236.	Lead (inorganic fumes & dusts)			270.
237.	Lead 2, 4, 6-Trinitroresorcinoxide (Lead Styphnate)			271.
238.	Lead Azide			272.
239.	Leptophos			273.
240.	Lindane			274.
241.	Liquefied Petroleum Gas (LPG)			275.
242.	Maleic Anhydride			276.
243.	Manganese & Compounds			277.
244.	Mercapto Benzothiazole			278.
245.	Mercury Alkyl			279.
246.	Mercury Fulminate			280.
247.	Mercury Methyl			281.
248.	Methacrylic Anhydride			282.
249.	Methacrylonitrile			283.
250.	Methacryloyl Chloride			284.
251.	Methamidophos			285.

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252. Methanesuphonyl Fluoride
253. Methanethiol
254. Methoxy Ethanol (2-Methyl Cellosolve)
255. Methoxyethylmercuric Acetate
256. Methyl Acrylate
257. Methyl Alcohol
258. Methyl Amylketone
259. Methyl Bromide (Bromomethane)
260. Methyl Chloride
261. Methyl Chloroform
262. Methyl Cyclohexene
263. Methyl Ethyl Ketone Peroxide
264. Methyl Hydrazine
265. Methyl Isobutyl Ketone
266. Methyl Isobutyl Ketone Peroxide
267. Methyl Isocyanate
268. Methyl Isothiocyanate
269. Methyl Mercaptan
270. Methyl Methacrylate
271. Methyl Parathion
272. Methyl Phosphonic Dichloride
273. N-Methyl, 2, 4, 6-Tetranitroaniline
274. Methylene Chloride
275. 4, 4'-Methylenebis (2-Chloroaniline)
276. Methyltrichlorosilane
277. Mevinphos
278. Molybdenum & Compounds
279. N-Methyl-N, 2, 4, 6-N Tetranitroaniline
280. Naphtha (Coal Tar)
281. 2-Naphthylamine
282. Nickel & Compounds
283. Nickel Tetracarbonyl
284. O-Nitroaniline
285. P-Nitroaniline

1	2	1	1
286.	Nitrobenzene		321
287.	P-Nitrochlorobenzene		322
288.	Nitrocyclohexane		323
289.	Nitroethane		324
290.	Nitrogen Dioxide		325
291.	Nitrogen Oxides		326
292.	Nitrogen Trifluoride		327
293.	Nitroglycerine		328
294.	P-Nitrophenol		329
295.	1-Nitropropane		330
296.	2-Nitropropane		331
297.	Nitrosodimethylamine		332
298.	Nitrotolune		333
299.	Octabromophenyl oxide		334
300.	Oleum		335
301.	Oleylamine		336
302.	00-Diethyl S-Ethylsulphinylmethyl Phosphorothioate		337
303.	00-Diethyl S-Ethylsulphonylmethyl Phosphorothioate		338
304.	00-Diethyl S-Ethylthiomethyl Phosphorothioate		339
305.	00-Diethyl S-Isopropylthiomethyl Phosphorodithioate		340
306.	00-Diethyl S-Propylthiomethyl Phosphorodithioate		341
307.	Oxyamyl		342
308.	Oxydisulfoton		
309.	Oxygen (Liquid)		343
310.	Oxygen Difluoride		
311.	Ozone		344
312.	Paraoxon (Diethyl 4-Nitrophenyl Phosphate)		
313.	Paraquat		345
314.	Parathion		346
315.	Parathion Methyl		347
316.	Paris Green (Bis Aceto Hexametaarsenitetra Copper)		348
317.	Pentaborane		349
318.	Pentabromodiphenyl Oxide		350
319.	Pentabromophenol		351
320.	Pentahloro Naphthalene		

1	2	3
321.	Pentachloroethane	
322.	Pentachlorophenol	
323.	Pentaerythritol Tetranitrate	
324.	Pentane	
325.	Peracetic Acid	
326.	Perchloroethylene	
327.	Perchloromethyl Mercaptan	
328.	2-Pentanone, 4-Methyl	
329.	Phenol	
330.	Phenyl Glycidal Ether	
331.	Phenylene P-Diamine	
332.	Phenylmercury Acetate	
333.	Phorate	
334.	Phosacetim	
335.	Phosalane	
336.	Phosfolan	
337.	Phosgene (Carbonyl Chloride)	
338.	Phosmet	
339.	Phosphamidon	
340.	Phosphine (Hydrogen Phosphide)	
341.	Phosphoric Acid and Esters	
342.	Phosphoric Acid, Bromoethyl Bromo (2, 2-Dimethylpropyl) Bromoethyl Ester	
343.	Phosphoric Acid, Bromoethyl Bromo (2, 2-Dimethylpropyl) Chloroethyl Ester	
344.	Phosphoric Acid, Chloroethyl Bromo (2, 2-Dimethoxylpropyl) Chloroethyl Ester	
345.	Phosphorous & Compounds	
346.	Phostalan	
347.	Picric Acid (2, 4, 6-Trinitrophenol)	
348.	Polybrominated Biphenyls	
349.	Potassium Arsenite	
350.	Potassium Chlorate	
351.	Promurit [1-(3, 4-Dichloropheny)-3-Triazenethiocarboxamide]	

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352.	1, 3-Propanesultone	
353.	1-Propen, 2-Chloro-1, 3-Diol-Diacetate	38
354.	Propylene Dichloride	38
355.	Propylene Oxide	38
356.	Propyleneimine	38
357.	Pyrazoxon	39
358.	Selenium Hexafluoride	39
359.	Semicarbazide Hydrochloride	39
360.	Sodium Arsenite	39
361.	Sodium Azide	39
362.	Sodium Chlorate	39
363.	Sodium Cyanide	39
364.	Sodium Picramate	39
365.	Sodium Selenite	39
366.	Styrene, 1, 1, 2, 2-Tetrachloroethane	39
367.	Sulfotep	40
368.	Sulphur Dichloride	40
369.	Sulphur Dioxide	40
370.	Sulphur Trioxide	40
371.	Sulphuric Acid	40
372.	Sulphoxide, 3-Chloropropyloctyl	40
373.	Tellurium	40
374.	Tellurium Hexafluoride	40
375.	Tepp	40
376.	Terbufos	40
377.	Alpha-Tetrabromobisphenol	41
378.	2,2,5,6,-Tetrachloro-2, 5-Cyclohexadiene-1, 4-Dione	41
379.	2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)	41
380.	Tetraethyl Lead	41
381.	Tetrafluoroethane	41
382.	Tetramethylenedisulphotetramine	41
383.	Tetramethyl Lead	41
384.	Tetranitromethane	41
385.	Thallium & Compounds	41

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386. Thionazin
387. Thionyl Chloride
388. Tirpate
389. Toluene
390. Toluene-2-4-Diisocyanate
391. O-Toluidine
392. Toluene 2, 6-Diisocyanate
393. Trans-1, 4-Chlorobutene
394. 1-Tri, (Cyclohexyl) Stannyl-1H-1, 2, 4-Triazole
395. 1, 3, 5-Triamino-2, 4, 6-Trinitrobenzene
396. 2, 4, 6-Tribromophenol
397. Trichloro Acetyl Chloride
398. Trichloro Ethane
399. Trichloro Naphthalene
400. Trichlorochloromethylsilane
401. Trichlorodichlorophenylsilane
402. 1,1,1-Trichloroethane
403. Trichloroethyl Silane
404. Trichloroethylene
405. Trichloromethanesulphenyl Chloride
406. 2,2,6-Trichlorophenol
407. 2,4,5-Trichlorophenol
408. Triethylamine
409. Triethylenemelamine
410. Trimethyl Chlorosilane
411. Trimethylolpropane Phosphite
412. Trinitroaniline
413. 2,4,6-Trinitroanisole
414. Trinitrobenzene
415. Trinitrobenzoic Acid
416. Trinitrocresol
417. 2,4,6-Trinitrophenetole
418. 2,4,6-Trinitroresorcinol (Styphnic Acid)
419. Trinitrotoluene

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420. Triorthocresyl Phosphate
421. Triphenyltin Chloride
422. Terpentine
423. Uranium & Compounds
424. Vanadium & Compounds
425. Vinyl Chloride
426. Vinyl Fluoride
427. Vinyl Toluene
428. Warfarin
429. Xylene
430. Xylidine
431. Zinc & Compounds
432. Zirconium & Compounds

SCHEDULE 2

[See Rule 2 (a) (ii), 4 (1) (b), 4(2) (1) and 6 (1) (c) and (d)]

Isolated storage of Installation other then those covered by schedule 4.

(a) The quantities set out below relate to each installation or group of installations belonging to the occupier where the distance between installations is not sufficient to avoid, in foreseeable circumstances, any aggravation of major accident hazards. These quantities apply in any case to each of the installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(b) For the purpose of determining the quantity of a hazardous chemical at an isolated storage, account shall also be taken of any hazardous chemical which is :—

- (i) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres of that site and connected to it,

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(ii) at any other site under the control of the occupier any part of the boundary of which is 500 metres of the said, site, and

(iii) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it,

but no account shall be taken of any hazardous chemical which is in a vehicle, vessel, aircraft or hovercraft for transporting it.

Sl.No.	Chemical or groups of chemicals	Quantity (tonnes)	
		For application of Rules 4, 5 and 7 to 9	For application of Rules 10 to 15
(Col. 1)	(Col. 2)	(Col. 3)	(Col. 4)
1.	Acrylonitrile	350	5000
2.	Ammonia	60	600
3.	Ammonium nitrate (a)	350*	2500*
4.	Ammonium nitrate fertilizers (b)	1250	10000
5.	Chlorine	10	25
6.	Flammable gases as defined in Schedule 1, Paragraph (b) (i)	50	300
7.	Highly flammable liquids as defined in Schedule 1, paragraph (b) (ii)	10000	100000
8.	Liquid oxygen	200	2000
9.	Sodium chlorate	25	250
10.	Sulphur dioxide	20	500
11.	Sulphur trioxide	15	100

*Where this chemical is in a state which gives it properties capable of creating a major accident hazard.

Footnotes :

(a) This applies to ammonium nitrate and mixtures of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight and to aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90 per cent by weight.

(b) This applies to straight ammonium nitrate fertilisers and to compound fertilisers where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight (a compound fertiliser contains ammonium nitrate together with phosphate and/or potash.)

SCHEDULE—3

[See Rules 2 (a) (iii), 5 and 6 (1) (a) and (b)]

List of Hazardous Chemicals for Application of Rules 5 and 7 to 15

(a) The quantities set out below relate to each installation or group of installations belonging to the same occupier where the distance between the installations is not sufficient to avoid in foreseeable circumstances, any aggravation of major accident hazards. These quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(b) For the purpose of determining the quantity of a hazardous chemical in an industrial installation, account shall also be taken of any hazardous chemical which is :—

(i) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres of that site and connected to it;

(ii) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site; and

(iii) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it;

but no account shall be taken of any hazardous chemical which is in a vehicle, vessel aircraft or hovercraft used for transporting it.

Part-I NAMED CHEMICALS

SL. No.	Chemical	Quantity		CAS Number
		For application of Rules 5, 7 to 9 and 13 to 15	For application of Rules 10 to 12	
(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)

Group 1-Toxic Chemicals

1.	Aldicarb	100 kg	116-06-3
2.	4-Aminodiphenyl	1 kg	92-67-1
3.	Amiton	1 kg	78-53-5
4.	Anabasine	100 kg	494-52-0
5.	Arsenic pentoxide Arsenic (v) acid & salts	500 kg	
6.	Arsenic trioxide, Arsenious (III) acid & salts	100 kg	
7.	Arsine (Arsenic hydride)	10 kg	7784-42-1
8.	Azinphos-ethyl	100 kg	2642-71-9
9.	Azinphos-methyl	100 kg	86-50-0
10.	Benzidine	1 kg	92-87-5
11.	Benzidine salts	1 kg	

1	2	3	4	5
12.	Beryllium (powders, compounds)	10 kg		
13.	Bis (2-chloroethyl sulphide	1 kg	505-60-2	
14.	Bis (chloromethyl) ether	1 kg	542-88-1	
15.	Carbofuran	100 kg	1563-66-2	
16.	Carbophenothion	100 kg	786-19-6	
17.	Chlorfenvinphos	100 kg	470-90-6	
18.	4-(Chloroformyl) morpholine	1 kg	15159-40-7	
19.	Chloromethyl methyl ether	1 kg	107-30-2	
20.	Cobalt metal, oxides, carbonates, sulphides, as powders	1 kg		
21.	Crimidine	100 kg	535-89-7	
22.	Cyanthoate	100 kg	3734-95-0	
23.	Cycloheximide	100 kg	66-81-9	
24.	Demeton	100 kg	8065-48-3	
25.	Dialifos	100 kg	10311-84-9	
26.	00-Diethyl S-ethylsulphinyl methyl phosphorothioate	100 kg	2588-05-8	
27.	00-Diethyl S-ethylsulphonyl methyl phosphorthioate	100 kg	2588-06-9	
28.	00-Diethyl S-ethylthiomethyl phosphorodithioate	100 kg	2600-69-3	
29.	00-Diethyl S-isopropylthiomethyl phosphorodithioate	100 kg	78-52-4	
30.	00-Diethyl S-propylthiomethyl phosphorothioate	100 kg	3309-68-0	
31.	Dimefox	100 kg	115-26-4	
32.	Dimethylcarbamoyl chloride	1 kg	79-44-7	
33.	Dimethylnitrosamine	1 kg	62-75-9	

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5	1	2	3	4	5
	34.	Dimethyl Phosphoramidocyanidic acid	1 t		63917-41-9
5-60-2	35.	Diphacinone	100 kg		82-66-6
1-88-1	36.	Disulfoton	100 kg		298-04-4
1-66-2	37.	EPN	100 kg		2104-54-5
1-19-6	38.	Ethion	100 kg		563-12-2
1-90-6	39.	Fensulfothion	100 kg		115-90-2
1-40-7	40.	Fluometil	100 kg		4301-50-2
1-30-2	41.	Fluoroacetic acid	1 kg		144-49-0
	42.	Fluoroacetic acid, salts	1 kg		
	43.	Fluoroacetic acid, esters	1 kg		
1-89-7	44.	Fluoroacetic acid, amides	1 kg		
95-0	45.	4-Fluorobutyric acid	1 kg		462-23-7
81-9	46.	4-Fluorobutyric acid, salts	1 kg		
1-48-3	47.	4-Fluorobutyric, esters	1 kg		
84-9	48.	4-Fluorobutyric acid, amides	1 kg		
05-8	49.	4-Fluorocrotonic acid	1 kg		37759-72-1
	50.	4-Fluorocrotonic acid, salts	1 kg		
	51.	4-Fluorocrotonic acid, esters	1 kg		
06-9	52.	Fluorocrotonic acid, amides	1 kg		
	53.	4-Fluoro-2-hydroxybutyric acid	1 kg		
	54.	4-Fluoro-2-hydroxybutyric acid salts	1 kg		
19-3	55.	4-Fluoro-2-hydroxy-butyr- ic acid, esters	1 kg		
	56.	4-Fluoro-2-hydroxy-butyr- ic acid, amides	1 kg		
2-4	57.	Glycolonitrile	100 kg		107-16-4
8-0		(hydroxyacetonitrile)			
	58.	1,2,3,7,8,9- Hexachlorodibenzop-dioxin	100 kg		19408-74-3
6-4	59.	Hexamethylphosphoramide	1 kg		680-31-9
4-7	60.	Hydrogen selenide	10 kg		7783-07-5
	61.	Isobenzan	100 kg		297-78-9
5-9	62.	Isodrin	100 kg		465-73-6

1	2	3	4	5
63.	Juglone (5-Hydroxynaphthalene -1, 4-dione)	100 kg		481-39-0
64.	4, 4,-methylenebis (2-chloroaniline)	10 kg		101-14-4
65.	Methyl isocyanate	150 kg	150 kg	624-83-9
66.	Mevinphos	100 kg		7786-34-7
67.	2-Naphthylamine	1 kg		91-59-9
68.	Nickel metal, oxides carbo- nates, sulphide, as powders	1 t		
69.	Nickel tetracarbonyl	10 kg		13463-39-3
70.	Oxydisulfoton	100 kg		2497-07-6
71.	Oxygen difluoride	10 kg		7783-41-7
72.	Paraoxon (diethyl 14-nitrop- henyl phosphate)	100 kg		311-45-5
73.	Parathion	100 kg		56-38-2
74.	Parathion-methyl	100 kg		298-00-0
75.	Pentaborane	100 kg		19624-22-7
76.	Phorate	100 kg		298-02-2
77.	Phosacetim	100 kg		4104-14-7
78.	Phosgene (carbonyl chloride)	750 kg		75-44-5
79.	Phosphamidon	100 kg		13171-11-6
80.	Phosphine (Hydrogen phosphide)	100 kg		7803-51-
81.	Promurit (1-(3,4-Dichlorop- henyl) 3-triazenethio carboxamide)	100 kg		5836-73-7
82.	1,3 Propanesultone	1 kg		1120-71-4
83.	1-Propen-2-chloro-1, 3-diol diacetate	10 kg		10118-72-6
84.	Pyrazoxon	100 kg		108-34-9
85.	Selenium hexafluoride	10 kg		7783-72-1
86.	Sodium selenite	100 kg		10102-18-8
87.	Stibine (Antimony hydride)	100 kg		7803-52-3
88.	Sulfoto	100 kg		3689-24-5
89.	Sulphur dichloride	1 t		10545-99-0

1	2	3	4	5
1-39-0	90. Tellurium	100 kg		7783-80-4
1-14-4	91. TEPP	100 kg		167-49-3
4-83-9	hexafluoride			
5-34-7	92. 2,3 7,8-	1 kg		1746-01-6
1-59-9	Tetrachlorodibenzo			
	dioxin (TCDD)			
	93. Tetramethylenedisul	1 kg		80-12-6
	photetramine			
3-39-3	94. Thionazin	100 kg		297-97-2
-07-6	95. Tirpate (2.4—dimethyl-1.3-	100 kg		26419-71-8
-41-7	dithiolane-2-carboxaldehyde			
	O-methylcarbomoyloxime)			
-45-5	96. Trichloromethane-sulphe-	100 kg		594-42-3
-38-2	nyl chloride			
-00-0	97. 1-Tri (cyclohexyl) stannyl-	100 kg		41083-11-8
-22-7	1H-1, 2, 4-triazole			
02-2	98. Triethylenemelamine	10 kg		51-18-3
14-7	99. Warfarin	100 kg		81-81-2
44-5	Group 2-Toxic chemicals			
1-6	(Quantity ; 1 tonne)			
51-	100. Acetone cyanohydrin	200 t		75-86-5
13-7	(2-Cyanopropan-2-01)			
	101. Acrolein (2-Propenal)	20 t		107-02-8
	102. Acrylonitrile	20 t	200 t	107-13-1
1-4	103. Allyl alcohol	200 t		107-18-6
2-6	(2-Propen-1-01)			
	104. Allylamine	200 t		107-11-9
4-9	105. Ammonia	50 t	500 t	7664-41-7
9-1	106. Bromine	40 t		7726-95-6
8-8	107. Carbon disulphide	20 t	200 t	75-15-0
2-3	108. Chlorine	10 t	25 t	7782-50-5
4-5	109. Diphenyl methane	20 t		101-08-8
9-0	di-isocyanate (MDI)			
	110. Ethylene dibromide	100 t		106-96-4
	(1, 2-Dibromomethane)			

1	2	3	4	5	1
111.	Ethyleneimine	50 t		151-56-4	132
112.	Formaldehyde (concentration $\leq 90\%$)			50-00-0	133
113.	Hydrogen chloride (liquefied gas)	25 t	250 t	7646-01-0	134
114.	Hydrogen cyanide	5 t	20 t	74-90-8	135
115.	Hydrogen fluoride	5 t	50 t	7664-39-3	136
116.	Hydrogen sulphide	5 t	50 t	7783-06-4	137
117.	Methyl bromide (Bromomethane)	20 t		74-83-9	138
118.	Nitrogen oxides	50 t		11104-93-1	139
119.	Propyleneimine	50 t		75-55-8	140
120.	Sulphur dioxide	20 t	250 t	7446-09-5	141
121.	Sulphur trioxide	15 t	75 t	7446-11-9	142
122.	Tetraethyl lead	5 t		78-00-2	143
123.	Tetramethyl lead	5 t		75-74-1	144
124.	Toluene di-isocyanate (TDI)	10 t		584-84-9	145
Group 3-Highly reactive chemicals					146
125.	Acetylene (ethyne)	5 t		74-86-2	147
126.	a. Ammonium nitrate (1)	350 t	2500t	6484-52-2	148
	b. Ammonium nitrate in the form of fertiliser (2)	1,250 t			149
127.	2,2-Bis (tert-butylperoxy) butane (concentration $\geq 70\%$)	5 t		2167-23-9	150
128.	1,1-Bis (tert-butylperoxy) cyclohexane (concentration $\geq 80\%$)	5 t		3006-86-8	151
129.	Tert-Butyl peroxyacetate (concentration $\geq 70\%$)	5 t		107-71-1	152
130.	Tert-Butyl peroxyisobutyrate (concentration $\geq 80\%$)	5 t		109-13-7	153
131.	Tert-Butylperoxyisopropyl carbonate (concentration $\geq 80\%$)	5 t		2372-21-6	154

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राजस्थान राज-पत्र, मूल 17, 1993

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5	1	2	3	4	5
1-56-4	132.	Tert-Butylperoxymaleate	5 t		1931-62-0
0-00-0		(concentration $\geq 80\%$)			
6-01-0	133.	Tert-Butyl peroxy pivalate	50 t		927-07-1
		(concentration $\geq 77\%$)			
4-90-8	134.	Dibenzyl peroxydicarbonate	5 t		2144-45-8
4-39-3		(concentration $\geq 90\%$)			
3-06-4	135.	Di-sec-butyl peroxydicarbonate	5 t		19910-65-7
4-83-9		(concentration $\geq 80\%$)			
	136.	Diethyl peroxydicarbonate	50 t		14666-78-5
		(concentration $\geq 30\%$)			
4-93-1	137.	2,2-Dihydroperoxypropane	5 t		2614-76-8
5-55-8		(concentration $\geq 30\%$)			
6-09-5	138.	Di-isobutryl peroxide	50 t		3437-84-1
5-11-9		(concentration $\geq 50\%$)			
3-00-2	139.	Di-n-propyl peroxydicarbon-	5 t		16066-38-9
5-74-1		ate (concentration $\geq 80\%$)			
1-84-9	140.	Ethylene oxide	5 t	50 t	75-21-8
	141.	Ethyl nitrate	50 t		625-58-1
	142.	3, 3, 6, 6, 9, 9, -Hexamethyl-	50 t		22397-33-7
-86-2		1, 2, 4, 5, -tetraoxacyclonane			
-52-2		(concentration $\geq 75\%$)			
	143.	Hydrogen	2 t	50 t	1333-74-0
	144.	Liquid oxygen	200 t		7782-44-7
-23-9	145.	Methyl ethyl ketone perox-	5 t		1338-23-4
		ide (concentration $\geq 60\%$)			
-86-8	146.	Methyl isobutyl ketone per-	50 t		37206-20-5
		oxide (concentra-			
	147.	on $\geq 60\%$) Peracetic acid	50 t		79-21-0
71-1		(concentration $\geq 60\%$)			
	148.	Propylene oxide	5 t		75-56-9
13-7	149.	Sodium chlorate	25 t		7775-09-9
	Group 4 Explosive chemicals				
21-6	150.	Barium azide	50 t		18810-58-7
	151.	Bis (2, 4, 6-trinitophenyl)	50 t		131-73-7
		amine			

1	2	3	4	5
152.	Chlorotrinitrobenzene	50 t		28260-61-9
153.	Cellulose nitrate (containing $\geq 12.6\%$ nitrogen)	50 t		9004-70-0
154.	Cyclotetramethylene tetranitramine	50 t		2691-41-0
155.	Cyclotrimethylenetri nitroamine	50 t		121-82-4
156.	Diazodinitrophenol	10 t		7008-81-3
157.	Diethylene glycol dinitrate	10 t		693-21-0
158.	Dinitrophenol, salts	50 t		
159.	Ethylene glycol dinitrate	10 t		628-96-6
160.	I-Guanyl-4-nitrosamineguanyl-1-tetrazene	10 t		109-27-3
161.	2,2', 4,4', 6,6' Hexanitrostilbene	50 t		20062-22-0
162.	Hydrazine nitrate	50 t		13464-97-6
163.	Lead azide	50 t		13424-46-9
164.	Lead styphnate (lead 2, 4, 6-trinitro-resorcinoxide)	50 t		15245-44-0
165.	Mercuryfulminate	10 t		628-86-4
166.	N-Methyl-N, 2, 4, 6-tetranitroaniline	50 t		479-15-8
167.	Nitroglycerine	10 t	10 t	55-63-0
168.	Pentaerythritol tetranitrate	50 t		78-11-5
169.	Picric acid (2, 4, 6-Trinitrophenol)	50 t		88-89-1
170.	Sodium picramate	50 t		831-52-7
171.	Styphnic acid (2, 4, 6-Trinitroresorcinol)	50 t		82-71-3
172.	1, 3, 5-Triamino-2, 4, 6-trinitrobenzene	50 t		3058-38-6
173.	Trinitroaniline	50 t		26952-42-1
174.	2, 4, 6-Trinitroanisole	50 t		606-35-9
175.	Trinitrobenzene	50 t		25377-32-6

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5	176.	Trinitrobenzoic acid	50 t		35860-50-5
1-9	177.	Trinitrocresol	50 t		28905-71-7
0-0	178.	2, 4, 6-Trinitrophenetole	50 t		4732-14-3
1-0	179.	2, 4, 6-Trinitrotoluene	50 t	50 t	118-96-7

**PART-II CLASSES OF CHEMICALS NOT SPECIFICALLY
NAMED IN PART-I**

Sl.No.	Classes of Chemicals	Quantity	
		For application of Rules 5, 7 to 9 & 13 to 15	For application of Rules 10 to 12
Column 1	Column 2	Column 3	Column 4

Group-5 Flammable Chemicals

1. Flammables gases:

Chemicals which in gaseous state at 15 t 200 t
normal pressure and mixed with air
become flammable and the boiling
point of which at normal pressure is
20 degree C or below.

2. Highly flammable liquids:

Chemicals which have a flash point 1000 t 50000 t
lower than 23 degree C and the
boiling point of which at normal
pressure is above 20 degree C.

3. Flammable liquids:

Chemicals which have a flash point
lower than 65 degree C and which 25 t 200 t
remain liquid under pressure,
where particular processing condi-
tions, such as high pressure and
high temperature, may create major
accident hazards.

Foot notes :

(1) This applies to ammonium nitrate and mixtures of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight and aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90% by weight.

(2) This applies to straight ammonium fertilisers and to compound fertilisers where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight (a compound fertilizer contains, ammonium nitrate together with phosphate and/or potash.)

*CAS Number (Chemical Abstracts Service Number) means the number assigned to the chemical by the Chemical Abstracts Service.

SCHEDULE 4

[See Rule 2 (b) (1)]

Industrial Installation Within The Meaning of Rule 2 (b) (i)

1. Installations for the production, processing or treatment of organic or inorganic chemicals using for this purpose, among others :

- (a) Alkylation
- (b) Amination by Amonolysis
- (c) Carbonylation
- (d) Condensation
- (e) Dehydrogenation
- (f) Esterfication
- (g) Halogenation & manufacture of Halogens
- (h) Hydrogenation
- (i) Hydrolysis
- (j) Oxidation

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- (k) Polymerization
 - (l) Sulphonation
 - (m) Desulphurization, manufacture and transformation of Sulphur-containing Compounds
 - (n) Nitration and manufacture of Nitrogen-containing compounds
 - (o) manufacture of Phosphorous-containing Compounds
 - (p) Formulation of pesticides and of pharmaceutical products
 - (q) Distillation
 - (r) Extraction
 - (s) Solvation
 - (t) mixing
2. Installations for distillation, refining or other processing of petroleum or petroleum products.
 3. Installations for the total or partial disposal of solid or liquid chemicals by incineration or chemical decomposition.
 4. Installations for the production, processing, or treatment of energy gases, for example, LPG, LNG, SNG;
 5. Installations for the dry distillation of coal or lignite.
 6. Installations for the production of metals or nonmetals by a wet process or by means of electrical energy.

SCHEDULE 5

[See Rule 3 (2) and (3)]

SAFETY DATA SHEET

1. CHEMICAL IDENTITY

Chemical Name	Chemical Classification
Synonyms	Trade Name
Formula	C. A. S. No. U. N. No.

Shipping Name		Hazardem No.:	
Codes/Label			
Regulated Identification			
Hazardous waste			
I. D. No.:			
Hazardous Ingredients C. A. S. No. Hazardous Ingredients C.A.S. No			
1.	3.		
2.	4.		
2. PHYSICAL AND CHEMICAL DATA			
Boiling Range/Point	°C	physical State	Appearance
Melting/Freezing Point	°C	Vapour Pressure @ 35°C	Odour mm Hg
Vapour Density (Air = 1)	Solubility in water	30°C	Others
Specific Gravity Water = 1	pH		
3. FIRE AND EXPLOSION HAZARD DATA			
Flammability	Yes/No	LEL	%Flash Point °C Autoignition °C Temperature
TDG Flammability	UEL	%Flash Point °C	Hazardous
Explosion Sensitivity to impact	Explosion Sensitivity to Static Electricity	Combustion Products	
Hazardous Polymerisation			
Combustible	Liquid	Explosive material	Corrosive Material
Flammable material	Oxidiser	Others	
Pyrophoric Material	Organic	Proxide	

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राजस्थान राज-पत्र, जून 17, 1993

31 (43)

No.:

4. REACTIVITY DATA

Chemical
Stability

S. No

Incompatibility
with other Material

Reactivity

Hazardous Reaction
Products

nce

our

5. HEALTH HAZARD DATA

Routes of Entry

ers

Effects of
Exposure/Symptoms

Emergency Treatment

°C

ure

ous

ion

TLV (ACGIH)	ppm	mg/m ³	STEL	ppm	mg/m ³
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Permissible

Exposure Limit	ppm	mg/m ³	Odour Thre.	ppm	mg/m ³
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LD 50

shold LD 50

NFPA Hazard
Signals

Health Flammability Stability Special

6. PREVENTIVE MEASURES

Personnel
Protective
EquipmentHandling and
Storage
Precautions

7. EMERGENCY AND FIRST AID MEASURE

FIRE

FIRE EXTINGUISHING

Media

FIRE

Special procedures

Unusual Hazards

EXPOSURE

First Aid Measures

Antidotes Dosages

Steps to be taken

• SPILLS

Waste Disposal Method

8. ADDITIONAL INFORMATION/REFERENCES

9. MANUFACTURER/SUPPLIERS DATA

Contact Person

Name of Firm in Emergency

Mailing Address

Telephone/Telex Nos. Local Bodies

Telegraphic Address involved

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Standard packing

Tremcard Details/Ref.

Other

10. DISCLAIMER

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is upto the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him as the case may be. The Government makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

SCHEDULE 6

[See Rule 5 (1)]

Information to be Furnished Regarding Notification of a Major Accident

Report number.....
of the particular accident

1. General data

- (a) Name of the site
(b) Name and address of the occupier
(Also state the telephone/telex number)

(c) (i) Registration number

- (ii) Licence number
(As may have been allotted
under any statute applicable to
the site, e.g. the Factories Act)

(d) (i) Nature of industrial activity
(Mention what is actually
manufactured, stored etc.)

(ii) National Industrial Classifica-
tion, 1987 at the four digit level.

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2. Type of major accident

Explosion ☐ Fire ☐ Emission of
bazardous
chemical ☐

3. Description of the major accident

(a) Date, shift and hour of the accident

(b) Department/Section and exact place
where the accident took place.

(c) The process/operation under taken
in the Department/Section where
the accident took place, (Attach a
flow chart, if necessary).

(d) The circumstances of the accident and
the hazardous chemical involved.

4. Emergency measures taken and measures envisaged to be
taken to alleviate short-term effects of the accident.

5. Causes of the major accident

Known

(to be specified)

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Not known

--

Information will be supplied
as soon as possible.

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6. Nature and extent of damage

(a) Within the establishment

—casualties

..... Killed

..... Injured

..... Poisoned

—persons exposed to the
major accident

.....

—material damage

—damage is still present

—danger no longer exists

(b) Outside the establishment

—casualties

..... Killed

..... Injured

..... Poisoned

—persons exposed to the
major accident

.....

—material damage

—damage to environment

-damage is still present

4.

-danger no longer exists

5.

6.

7. Data available for assessing the effects of the accident on persons and environment,

7.

8. Steps already taken or envisaged
- to alleviate medium or long term effects of the accident
 - to prevent recurrence of similar major accident
 - Any other relevant information

8.

Signature.....

Name and Designation of
Authorised Signatory/Occupier
or Manager

SCHEDULE 7

[See Rule 7 (1)]

Information to be furnished for the Notification of Activities sites.

Particulars to be included in a notification of site.

- The name and address of the occupier making the notification.
- The full postal address of the site where the notifiable industrial activity will be carried on.
- The area of the site covered by the notification and of any adjacent site which is required to be taken into account by virtue of Schedule 2 (b) and Schedule 3 (b).

4. The date on which it is anticipated that the notifiable industrial activity will commence or if it has already commenced a statement to that effect.
5. The name and maximum quantity liable to be on the site of each hazardous chemical for which notification is being made.
6. Organisation structure, namely, organisation diagram for the proposed industrial activity and set up for ensuring safety and health.
7. Information relating to the potential for major accidents, namely—
 - (a) identification of major accident hazards;
 - (b) the condition of events which could be significant in bringing one about;
 - (c) a brief description of the measures taken.
8. Information relating to the site namely—
 - (a) a map of the site and its surrounding area to a scale large enough to show any features that may be significant in the assessment of the hazard or risk associated with the site;
 - (i) area likely to be affected by the major accident,
 - (ii) population distribution in the vicinity.
 - (b) a scale plan of the site showing the location and quantity of all significant inventories of the hazardous chemicals;
 - (c) a description of the processes or storages involving the hazardous chemicals, the maximum amount of such a hazardous chemicals in the given process or storage and an indication of the conditions under which it is normally held;
 - (d) the maximum number of persons likely to be present on site.
9. The arrangement for training of workers and equipment necessary to ensure safety of such workers.

SCHEDULE 8

[(See Rule 10 (1)]

Information to be furnished in a Safety Report

1. The name and address of the person furnishing the information.
2. Description of the industrial activity, namely :—
 - (a) site,
 - (b) construction design,
 - (c) protection zones (explosion protection, separation distances),
 - (d) accessibility of plant,
 - (e) maximum number of persons working on the site and particularly of those persons exposed to the hazard.
3. Description of the processes, namely :—
 - (a) technical purpose of the industrial activity,
 - (b) basic principles of the technological process,
 - (c) process and safety-related data for the individual process stages,
 - (d) process description,
 - (e) safety-related types of utilities.
4. Description of the hazardous chemicals, namely :—
 - (a) chemical (quantities, substance data on physical and chemical properties, safety-related data on explosive limits, flash-point, thermal stability toxicological data and threshold limit values, lethal concentrations),
 - (b) the form in which the chemicals may occur or into which they may be transformed in the event of abnormal conditions.
 - (c) the degree of purity of the hazardous chemical.

5. Information on the Preliminary Hazard Analysis, namely:—

- (a) type of accident,
- (b) system elements or foreseen events that can lead to a major accident,
- (c) hazards,
- (d) safety-relevant components.

6. Description of safety-relevant units, among others:—

- (a) special design criteria,
- (b) controls and alarms,
- (c) pressure relief systems,
- (d) quick-acting valves,
- (e) Collecting tanks/dump tanks.
- (f) sprinkler systems,
- (g) fire protection.

7. Information on the hazard assessment, namely:—

- (a) identification of hazards,
- (b) the causes of major accidents,
- (c) assessment of hazards according to their occurrence frequency,
- (d) assessment of accident consequences,
- (e) safety systems,
- (f) known accident history.

8. Description of information on organisational systems used to carry on industrial activity safely, namely:—

- (a) maintenance and inspection schedules,
- (b) guidelines for the training of personnel,
- (c) allocation and delegation of responsibility for plant safety,
- (d) implementation of safety procedures.

9. Information on of assessment of the consequences of major accidents, namely:—

- (a) assessment of the possible release of hazardous chemicals or of energy,
- (b) possible dispersion of released chemicals,
- (c) assessment of the effects of the releases (size of the affected area, health effects, property damage).

10. Information on the mitigation of major accidents, namely:—

- (a) fire brigade;
- (b) alarm systems;
- (c) emergency plan containing system of organisation used to fight the emergency, the alarm and the communication routes, guidelines for fighting the emergency, examples of possible accident sequences ;
- (d) coordination with the District Collector or the District Emergency Authority and its off-site emergency plan,
- (e) notification of the nature and scope of the hazard in the event of an accident ,
- (f) antidotes in the event of a release of a hazardous chemical.

[(No. F. 4 (1) shram/91)]

By Order of the Governor,

आर. पी. तिवाड़ी,

Special Secretary to the Government.

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