



भारत सरकार GOVERNMENT OF INDIA
वित्त मंत्रालय MINISTRY OF FINANCE
राजस्व विभाग DEPARTMENT OF REVENUE

सीमाशुल्क आयुक्त का कार्यालय
OFFICE OF THE COMMISSIONER OF CUSTOMS
सीमाशुल्क गृह, विल्लिंगटन आईलैंड, कोचिन
CUSTOM HOUSE, WILLINGDON ISLAND, COCHIN-682009

Sevottam Compliant



An IS 15700 certified Custom House

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TRADE FACILITY NO. 06/2018

**Subject: Import of Hazardous Chemicals - Compliance with the
"Manufacture, Storage and Import of Hazardous Chemical Rules,
1989" -Reg**

Kind attention of importers, Customs Brokers, Steamer Agents and all other stakeholders is drawn to the "Manufacture, Storage and Import of Hazardous Chemical Rules, 1989".

2. As per the said Rules, an Occupier undertaking any Industrial Activity involving Hazardous Chemicals, as defined in Rule 6 of the said Rules, shall do so only upon receiving consent/Approval from the concerned Authorities and after submitting a written Report to the concerned Authorities in a manner specified in Rule 7 *ibid*.

3. Considering the directions communicated by Kerala State Pollution Control Board, among the concerned Authorities in this regard, the importers of Hazardous Chemicals (as defined in the Rules) are directed to produce a valid consent/approval from the concerned State Pollution Control Board and to comply with the appropriate provisions of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989.

4. All the stakeholders are required to take cognisance and comply with the same to avoid difficulty while importing Hazardous Chemicals.

4. All the stakeholders are required to take cognisance and comply with the same to avoid difficulty while importing Hazardous Chemicals.
5. Copy of the communication received from Kerala State Pollution Control Board is enclosed for reference.
6. Hindi Version follows.

Sumit Kumar
05/03/18

(सुमित कुमार SUMIT KUMAR)

सीमाशुल्क आयुक्त Commissioner of Customs

Encl: As above

जारी Issued to: All concerned, as per mailing list.

F.No.C1/03/2016 TU. Cus.

दिनांक Dated: 05.03.2018

प्रतिलिपि प्रेषित Copy to :

1. The Chief Commissioner
2. Commissioner's file/Addl Commissioners/ All D.Cs & A.Cs/ Development Commissioner (CSEZ)/ All Appraisers/ All Sections / Guard File and as per mailing list. All concerned officers are directed to note and comply with the instructions/changes
3. Hindi Officer.

AM AOS
S. J. J. to M. J. J.

CCU

Pl. send to
Commr's Tapd.

General: 0471-2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151
E-mail: ms.kspcb@gov.in FAX: 0471-2318134, 2318152 web: www.keralapcb.nic.in



KERALA STATE POLLUTION CONTROL BOARD
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

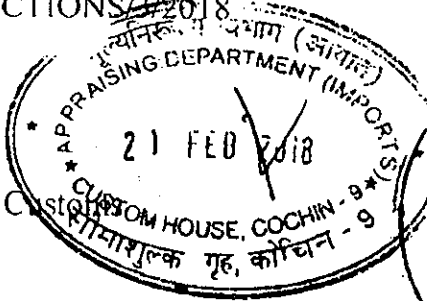
Patton P.O., Thiruvananthapuram - 695 004
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Dept (CCU)
Please examine
23/2
2018

PCB/HO/HAZ/CPCB-DIRECTIONS/2/2018

Date: 07/02/2018

From The Member Secretary
To The Commissioner of Customs
Custom House
Wellington Island
Kochi
Ernakulam - 682 009



Sub: Import of Hazardous Chemicals - Rule 18 of "The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989" - reg.

Sir,

Kind attention is invited to the provisions of Rule 18 of "The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989" regarding import of Hazardous Chemicals. Hazardous Chemicals are defined in the Rules as hereunder.

"Hazardous Chemical means -

- (i) any chemical which satisfies any of the criteria laid down in Part I of I [Schedule 1 or] listed in Column 2 of Part II of this Schedule ;
- (ii) any chemical listed in Column 2 of Schedule 2;
- (iii) any chemical listed in Column 2 of Schedule 3; "

In Rule 6 & Rule 7, the industrial activity coming under the purview of the Rules and notification of sites handling hazardous chemicals as applicable has been detailed. An occupier shall not undertake any industrial activity unless he has been granted an approval for undertaking such an activity and has submitted a written report to the concerned authority containing the particulars specified in Schedule 7 at least 3 months before commencing that activity or before such shorter time as the concerned authority may agree and for the purpose of this paragraph, an activity in which subsequently there is or is liable to be a threshold quantity or more of an additional hazardous chemical shall be deemed to be a different activity

and shall be notified accordingly. The concerned authority (authority mentioned in Column 2 of Schedule 5 (copy enclosed)) for giving approval for the industrial activity/ storage includes the State Pollution Control Board.

The industries/ storage facilities importing hazardous chemicals as per the Rules 6 & 7 shall be directed to produce valid consent/ approval from the Kerala State Pollution Control Board, as the units involved in The Manufacture, Storage and Import of Hazardous Chemical Rules are mandated to comply with the provisions of The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 and this shall be enforced during the Customs clearance. Hence, strict compliance of the appropriate provisions of the Rules shall be ensured while granting customs clearances. As the hazardous chemicals being imported are likely to cause major accidents due to either unsafe or excess of the threshold quantities specified in the Rules, their safe handling and storage should also be ensured while off-loading the consignment within the premises. If the hazardous chemical is imported on unsafe and adverse conditions, the import shall be prevented.

Yours faithfully,



MEMBER SECRETARY (I/C)

Encl: List of Hazardous Chemicals as per Rules, Copy of Schedule 5

[SCHEDULE I]
[Sec rule 2e (i), 4 (1)(a), 4(2), 17 and 18]

[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.	Toxicity	Oral toxicity LD ₅₀ (mg/kg)	Dermal toxicity LD ₅₀ (mg/kg)	Inhalation toxicity LC ₅₀ (mg/l)
1.	Extremely toxic	>5	<40	<0.5
2.	Highly toxic	>5-50	>40-200	<0.5-2.0
3.	Toxic	>50-200	>200-1000	>2-10

(b) **Flammable Chemicals :**

- (i) flammable gases: Gases which at 20°C and at standard pressure of 101.3KPa are :-

(a) ignitable when in a mixture of 13 percent or less by volume with air, or ;

(b) have a flammable range with air of at least 12 percentage points regardless of the lower flammable limits.

Note : The flammability shall be determined by tests or by calculation in accordance with methods adopted by International Standards Organization ISO Number 10156 of 1990 or by Bureau of Indian Standard ISI Number 1446 of 1985.

- (ii) **extremely flammable liquids :** chemicals which have flash point lower than or equal to 23°C and boiling point less than 35°C.
- (iii) **very highly flammable liquids :** chemicals which have a flash point lower than or equal to 23°C and initial boiling point higher than 35°C.

- (iv) **highly flammable liquids** : chemicals which have a flash point lower than or equal to 60°C but higher than 23°C.
- (v) **flammable liquids** : chemicals which have a flash point higher than 60°C but lower than 90°C.
- (c) **Explosives** : explosives mean a solid or liquid or pyrotechnic substance (or a mixture of substances) or an article.
 - (a) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings ;
 - (b) which is designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonative self sustaining exothermic chemical reaction.

PART II
LIST OF HAZARDOUS AND TOXIC CHEMICALS

S. No.	NAME OF HAZARDOUS CHEMICALS	S. No.	NAME OF HAZARDOUS CHEMICALS
1.	Acetaldehyde	41.	Antimycin A
2.	Acetic acid	42.	ANTU
3.	Acetic anhydride	43.	Arsenic pentoxide
4.	Acetone	44.	Arsenic trioxide
5.	Acetone cyanohydrin	45.	Arsenous trichloride
6.	Acetone thiosemicarbazide	46.	Arsine
7.	Acetonitrile	47.	Asphalt
8.	Acetylene	48.	Azinpho-ethyl
9.	Acetylene tetra chloride	49.	Azinphos methyl
10.	Acrolein	50.	Bacitracin
11.	Acrylamide	51.	Barium azide
12.	Acrylonitrile	52.	Barium nitrate
13.	Adiponitrile	53.	Barium nitride
14.	Aldicarb	54.	Benzal chloride
15.	Aldrin	55.	Benzenamine.3-Trifluoromethyl
16.	Allyl alcohol	56.	Benzene
17.	Allyl amine	57.	Benzene sulfonyl chloride
18.	Allyl chloride	58.	Benzene, 1-(chloromethyl)-4 Nitro
19.	Aluminium (powder)	59.	Benzene arsenic acid
20.	Aluminium azide	60.	Benzidine
21.	Aluminium borohydride	61.	Benzidine salts
22.	Aluminium chloride	62.	Benzimidazole, 4, 5-Dichloro-2 (Trifluoromethyl)
23.	Aluminium fluoride	63.	Benzoquinone-P
24.	Aluminium phosphide	64.	Benzotrichloride
25.	Amino diphenyl	65.	Benzoyl chloride
26.	Amino pyridine	66.	Benzoyl peroxide
27.	Aminophenol-2	67.	Benzyl chloride
28.	Aminopterin	68.	Beryllium (Powder)
29.	Amiton	69.	Bicyclo (2, 2, 1) Heptane -2- carbonitrile
30.	Amiton dialate	70.	Biphenyl
31.	Ammonia	71.	Bis (2-Chloroethyl) sulphide
32.	Ammonium chloro platinate	72.	Bis (Chloromethyl) Ketone
33.	Ammonium nitrate	73.	Bis (Tert-butyl peroxy) cyclohexane
34.	Ammonium nitrite	74.	Bis (Terbutylperoxy) butane
35.	Ammonium picrate	75.	Bis(2,4, 6-Trinitrophenylamine)
36.	Anabasine	76.	Bis (Chloromethyl) Ether
37.	Aniline	77.	Bismuth and compounds
38.	Aniline 2,4, 6-Trimethyl	78.	Bisphenol-A
39.	Anthraquinone	79.	Bitoscanate
40.	Antimony pentafluoride		

80. Boron Powder
81. Boron trichloride
82. Boron trifluoride
83. Boron trifluoride comp.
With methylether, 1:1
84. Bromine
85. Bromine pentafluoride
86. Bromo chloro methane
87. Bromodialone
88. Butadiene
89. Butane
90. Butanone-2
91. Butyl amine tert
92. Butyl glycidal ether
93. Butyl isovalarate
94. Butyl peroxy maleate tert
95. Butyl vinyl ether
96. Butyl-n-mercaptan
97. C.I. Basic green
98. Cadmium oxide
99. Cadmium stearate
100. Calcium arsenate
101. Calcium carbide
102. Calcium cyanide
103. Camphechlor (Toxaphene)
104. Cantharidin
105. Captan
106. Carbachol chloride
107. Carbaryl
108. Carbofuran (Furadan)
109. Carbon tetrachloride
110. Carbon disulphide
111. Carbon monoxide
112. Carbonphenothion
113. Carvone
114. Cellulose nitrate
115. Chloroacetic acid
116. Chlordane
117. Chlorofenvinphos
118. Chlorinated benzene
119. Chlorine
120. Chlorine oxide
121. Chlorine trifluoride
122. Chlormephos
123. Chlornequat chloride
124. Chloroacetal chloride
125. Chloroacetaldehyde
126. Chloroaniline -2
127. Chloroaniline -4
128. Chlorobenzene
129. Chloroethyl chloroformate
130. Chloroform
131. Chloroformyl morpholine
132. Chloromethane
133. Chloromethyl methyl ether
134. Chloronitrobenzene
135. Chlorophacinone
136. Chlorosulphonic acid
137. Chlorothiophos
138. Chloroxuron
139. Chromic acid
140. Chromic chloride
141. Chromium powder
142. Cobalt carbonyl
143. Cobalt Nitrilmethylidyne compound
144. Cobalt (Powder)
145. Colchicine
146. Copper and Compounds
147. Copperoxychloride
148. Comafuryl
149. Coumaphos
150. Coumatetralyl
151. Crimidine
152. Crotonaldehyde
153. Crotonaldehyde
154. Cumene
155. Cyanogen bromide
156. Cyanogen iodide
157. Cyanophos
158. Cyanothoate
159. Cyanuric fluoride
160. Cyclo hexylamine
161. Cyclohexane
162. Cyclohexanone
163. Cycloheximide
164. Cyclopentadiene
165. Cyclopentane
166. Cyclo tetramethyl enetetranitramine
167. Cyclo trimethylen
etrinitramine

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| 168. | Cypermethrin | 209. | Dimethyl nitrosoamine |
| 169. | DDT | 210. | Dimethyl P phenylene diamine |
| 170. | Decaborane (1 :4) | 211. | Dimethyl phosphoramidi cyanidic acid (TABUM) |
| 171. | Demeton | 212. | Dimethyl phosphorochloridathioate |
| 172. | Demeton S-Methyl | 213. | Dimethyl sulfolane (DMS) |
| 173. | Di-n-propyl peroxydicarbonate (Conc = 80%) | 214. | Dimethyl sulphide |
| 174. | Dialifas | 215. | Dimethylamine |
| 175. | Diazodinitrophenol | 216. | Dimethylaniline |
| 176. | Dibenzyl peroxydicarbonate (Conc >= 90%) | 217. | Dimethylcarbonyl chloride |
| 177. | Diborane | 218. | Dimetilan |
| 178. | Dichloroacetylene | 219. | Dinitro O-cresol |
| 179. | Dichlorobenzalkonium chloride | 220. | Dinitrophenol |
| 180. | Dichloroethyl ether | 221. | Dinitrotoluene |
| 181. | Dichloromethyl phenylsilane | 222. | Dinoseb |
| 182. | Dichlorophenol - 2, 6 | 223. | Diniterb |
| 183. | Dichlorophenol - 2, 4 | 224. | Dioxane-p |
| 184. | Dichlorophenoxy acetic acid | 225. | Dioxathion |
| 185. | Dichloropropane - 2, 2 | 226. | Dioxine N |
| 186. | Dichlorosalicylic acid-3, 5 | 227. | Diphacinone |
| 187. | Dichlorvos (DDVP) | 228. | Diphosphoramide octamethyl |
| 188. | Dicrotophos | 229. | Diphenyl methane di-isocyanate (MDI) |
| 189. | Dieldrin | 230. | Dipropylene Glycol Butyl ether |
| 190. | Diepoxy butane | 231. | Dipropylene glycolmethyl ether |
| 191. | Diethyl carbamazine citrate | 232. | Di-sec-butyl peroxydicarbonate (Conc.>80%) |
| 192. | Diethyl chlorophosphate | 233. | Disufoton |
| 193. | Diethyl ethanolamine | 234. | Dithiazamine iodide |
| 194. | Diethyl peroxydicarbonate (Conc=30%) | 235. | Dithiobiarate |
| 195. | Diethyl phenylene diamine | 236. | Endosulfan |
| 196. | Diethylamine | 237. | Endothion |
| 197. | Diethylene glycol | 238. | Endrin |
| 198. | Diethylene glycol dinitrate | 239. | Epichlorohydrine |
| 199. | Diethylene triamine | 240. | EPN |
| 200. | Diethleneglycol butyl ether | 241. | Ergocalciferol |
| 201. | Diglycidyl ether | 242. | Ergotamine tartarate |
| 202. | Digitoxin | 243. | Ethanesulfenyl chloride, 2 chloro |
| 203. | Dihydroperoxypropane (Conc >=30%) | 244. | Ethanol 1-2 dichloracetate |
| 204. | Diisobutyl peroxide | 245. | Ethion |
| 205. | Dimetox | 246. | Ethoprophos |
| 206. | Dimethoate | 247. | Ethyl acetate |
| 207. | Dimethyl dichlorosilane | 248. | Ethyl alcohol |
| 208. | Dimethyl hydrazine | 249. | Ethyl benzene |
| | | 250. | Ethyl bis amine |

251.	Ethyl bromide	292.	Furan
252.	Ethyl carbamate	293.	Gallium Trichloride
253.	Ethyl ether	294.	Glyconitrile (Hydroxyacetonitrile)
254.	Ethyl Hexanol -2	295.	Guanyl-4-nitrosaminogwyny 1-1-tetrazene
255.	Ethyl mercaptan	296.	Heptachlor
256.	Ethyl mercuric phosphate	297.	Hexamethyl tera-oxyacyclononate (Conc 75%)
257.	Ethyl methacrylate	298.	Hexachlorobenzene
258.	Ethyl nitrate	299.	Hexachlorocyclohexan (Lindane)
259.	Ethyl thiocyanate	300.	Hexachlorocyclopentadiene
260.	Ethylamine	301.	Hexachlorodibenzo-p-dioxin
261.	Ethylene	302.	Hexachloronapthalene
262.	Ethylene chlorohydrine	303.	Hexafluoropropanone sesquihydrate
263.	Ethylene dibromide	304.	Hexamethyl phosphoromide
264.	Ethylene diamine	305.	Hexamethylene diamine N N dibutyl
265.	Ethylene diamine hydrochloride	306.	Hexane
266.	Ethylene flourohydrine	307.	Hexanitrostilbene 2, 2, 4, 4, 6, 6
267.	Ethylene glycol	308.	Hexene
268.	Ethylene glycol dinitrate	309.	Hydrogen selenide
269.	Ethylene oxide	310.	Hydrogen sulphide
270.	Ethylenimine	311.	Hydrazine
271.	Ethylene di chloride	312.	Hydrazine nitrate
272.	Fenamiphos	313.	Hydrochloric acid (Gas)
273.	Femirothion	314.	Hydrogen
274.	Fensulphothion	315.	Hydrogen bromide
275.	Fluemetil	316.	Hydrogen cyanide
276.	Fluorine	317.	Hydrogen fluoride
277.	Fluoro2-hyrdoxy butyric acid amid salt ester	318.	Hydrogen peroxide
278.	Fluoroacetamide	319.	Hydroquinone
279.	Fluoroacetic acid amide salts and esters	320.	Indene
280.	Fluoroacetylchloride	321.	Indium powder
281.	Fluorobutyric acid amide salt esters	322.	Indomethacin
282.	Fluorocrotonic acid amides salts esters	323.	Iodine
283.	Fluorouracil	324.	Iridium tetrachloride
284.	Fonofos	325.	Ironpentacarbonyl
285.	Formaldehyde	326.	iso benzan
286.	Formetamate hydrochloride	327.	Isoamyl alcohol
287.	Formic acid	328.	Isobutyl alcohol
288.	Formoparanate	329.	Isobutyro nitrile
289.	Formothion	330.	Isocyanic acid 3, 4-dichlorophenyl ester
290.	Fosthiotan	331.	Isodrin
291.	Fuberidazole		

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| 332. | Isofluorophosphate | 373. | Methoxy ethanol (2-methyl cellosolve) |
| 333. | Isophorone diisocyanate | 374. | Methoxyethyl mercuric acetate |
| 334. | Isopropyl alcohol | 375. | Methacryloyl chloride |
| 335. | Isopropyl chlorocarbonate | 376. | Methyl 2-chloroacrylate |
| 336. | Isopropyl formate | 377. | Methyl alcohol |
| 337. | Isopropyl methyl pyrazolyl dimethyl carbamate | 378. | Methyl amine |
| 338. | Juglone (5-Hydroxy Naphthalene-1,4 dione) | 379. | Methyl bromide (Bromomethane) |
| 339. | Ketene | 380. | Methyl chloride |
| 340. | Lactonitrile | 381. | Methyl chloroform |
| 341. | Lead arsenite | 382. | Methyl chloroformate |
| 342. | Lead at high temp (molten) | 383. | Methyl cyclohexene |
| 343. | Lead azide | 384. | Methyl disulphide |
| 344. | Lead styphanate | 385. | Methyl ethyl ketone peroxide (Conc.60%) |
| 345. | Leptophos | 386. | Methyl formate |
| 346. | Lenisite | 387. | Methyl hydrazine |
| 347. | Liquified petroleum gas | 388. | Methyl isobutyl ketone |
| 348. | Lithium hydride | 389. | Methyl isocyanate |
| 349. | N-Dinitrobenzene | 390. | Methyl isothiocyanate |
| 350. | Magnesium powder or ribbon | 391. | Methyl mercuric dicyanamide |
| 351. | Malathion | 392. | Methyl Mercaptan |
| 352. | Maleic anhydride | 393. | Methyl Methacrylate |
| 353. | Malononitrile | 394. | Methyl phenacpton |
| 354. | Manganese Tricarbonyl cyclopentadiene | 395. | Methyl phosphonic dichloride |
| 355. | Mechlor ethamine | 396. | Methyl thiocyanate |
| 356. | Mephospholan | 397. | Methyl trichlorosilane |
| 357. | Mercuric chloride | 398. | Methyl vinyl ketone |
| 358. | Mercuric oxide | 399. | Methylene bis (2-chloroaniline) |
| 359. | Mercury acetate | 400. | Methylene chloride |
| 360. | Mercury fulminate | 401. | Methylenebis-4,4(2-chloroaniline) |
| 361. | Mercury methyl chloride | 402. | Metolcarb |
| 362. | Mesitylene | 403. | Mevinphos |
| 363. | Methacrolein diacetate | 404. | Mezacarbate |
| 364. | Methacrylic anhydride | 405. | Mitomycin C |
| 365. | Methacrylonitrile | 406. | Molybdenum powder |
| 366. | Methacryloyl oxyethyl isocyanate | 407. | Monocrotophos |
| 367. | Methanidophos | 408. | Morpholine |
| 368. | Metbane | 409. | Muscinol |
| 369. | Methanesulphonyl fluoride | 410. | Mustard gas |
| 370. | Methidathion | 411. | N-Butyl acetate |
| 371. | Methiocarb | 412. | N.-Butyl alcohol |
| 372. | Methonyl | 413. | N-Hexane |
| | | 414. | N- Methyl-N. 2, 4, 6-Tetranitroaniline |

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|------|--|------|---|
| 415. | Naphtha | 454. | Oxamyl |
| 416. | Nephtha solvent | 455. | Oxetane, 3, 3-bis(chloromethyl) |
| 417. | Naphthalene | 456. | Oxidiphenoxarsine |
| 418. | Naphthylamine | 457. | Oxy disulfoton |
| 419. | Nickel carbonyl/nickel tetracarbonyl | 458. | Oxygen (liquid) |
| 420. | Nickel powder | 459. | Oxygen difluoride |
| 421. | Nicotine | 460. | Ozone |
| 422. | Nicotine sulphate | 461. | P-nitrophenol |
| 423. | Nitric acid | 462. | Paraffin |
| 424. | Nitric oxide | 463. | Paraoxon (Diethyl 4 Nitrophenyl phosphate) |
| 425. | Nitrobenzene | 464. | Paraquat |
| 426. | Nitrocellulose (dry) | 465. | Paraquat methosulphate |
| 427. | Nitrochlorobenzene | 466. | Parathion |
| 428. | Nitrocyclohexane | 467. | Parathion methyl |
| 429. | Nitrogen | 468. | Paris green |
| 430. | Nitrogen dioxide | 469. | Penta borane |
| 431. | Nitrogen oxide | 470. | Penta chloro ethane |
| 432. | Nitrogen trifluoride | 471. | Penta chlorophenol |
| 433. | Nitroglycerine | 472. | Pentabromophenol |
| 434. | Nitropropane-1 | 473. | Pentachloro naphthalene |
| 435. | Nitropropane-2 | 474. | Pentadecyl-amine |
| 436. | Nitroso dimethyl amine | 475. | Pentaerythajitol tetranitrate |
| 437. | Nonane | 476. | Pentaene |
| 438. | Norbormide | 477. | Pentanone |
| 439. | O-Cresol | 478. | Perchloric acid |
| 440. | O-Nitro Toluene | 479. | Perchloroethylene |
| 441. | O-Toludine | 480. | Peroxyacetic acid |
| 442. | O-Xylene | 481. | Phenol |
| 443. | O/P Nitroaniline | 482. | Phenol, 2, 2-thiobis (4, 6-Dichloro) |
| 444. | Oleum | 483. | Phenol, 2, 2-thiobis (4 chloro 6-methyl phenol) |
| 445. | OO Diethyl S ethyl sulph. methyl phos | 484. | Phenol, 3-(1-methyl ethyl) methylcarbamate |
| 446. | OO Diethyl S propythio methyl phosdithioate | 485. | Phenyl hydrazine hydrochloride |
| 447. | OO Diethyl s ethylsulphanyl methylphosphorothioate | 486. | Phenyl mercury acetate |
| 448. | OO Diethyl s ethylsulphonyl methylphosphorothioate | 487. | Phenyl silatrane |
| 449. | OO Diethyls ethylthiomethylphospho-ruthioate | 488. | Phenyl thiourea |
| 450. | Organo rhodium complex | 489. | Phenylene P-diamine |
| 451. | Orotic acid | 490. | Phorate |
| 452. | Osmium tetroxide | 491. | Phosazetin |
| 453. | Oxabain | 492. | Phosfolan |
| | | 493. | Phosgene |
| | | 494. | Phosmet |
| | | 495. | Phosphamidon |

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|------|--|------|--------------------------------------|
| 496. | Phosphine | 535. | Propionitrile |
| 497. | Phosphoric acid | 536. | Propionitrile, 3-chloro |
| 498. | Phosphoric acid dimethyl (4-methyl-thio)phenyl | 537. | Propiophenone, 4-amino |
| 499. | Phosphorothioic acid dimethyl S(2-Bis) Ester | 538. | Propyl chloroformate |
| 500. | Phosphorothioic acid methyl (ester) | 539. | Propylene dichloride |
| 501. | Phosphorothioic acid, OO Dimethyl S-(2-methyl) | 540. | Propylene glycol, allylether |
| 502. | Phosphorothioic, methyl-ethyl ester | 541. | Propylene imine |
| 503. | Phosphorous | 542. | Propylene oxide |
| 504. | Phosphorous oxychloride | 543. | Prothoate |
| 505. | Phosphorous pentaoxide | 544. | Pseudosumene |
| 506. | Phosphorous trichloride | 545. | Pyrazoxon |
| 507. | Phosphorous penta chloride | 546. | Pyrene |
| 508. | Phthalic anhydride | 547. | Pyridine |
| 509. | Phylloquinone | 548. | Pyridine, 2-methyl-3-vinyl |
| 510. | Physostigmine | 549. | Pyridine, 4-nitro-1-oxide |
| 511. | Physostigmine salicylate (1:1) | 550. | Pyridine, 4-nitro-1-oxide |
| 512. | Picric acid (2, 4, 6- trinitrophenol) | 551. | Pyriminil |
| 513. | Picrotoxin | 552. | Quinaliphos |
| 514. | Piperdine | 553. | Quinone |
| 515. | Piprotal | 554. | Rhodium trichloride |
| 516. | Pirinifos-ethyl | 555. | Salcomine |
| 517. | Platinous chloride | 556. | Sarin |
| 518. | Platinum tetrachloride | 557. | Selenious acid |
| 519. | Potassium arsenite | 558. | Selenium Hexafluoride |
| 520. | Potassium chlorate | 559. | Selenium oxychloride |
| 521. | Potassium cyanide | 560. | Semicarbazide hydrochloride |
| 522. | Potassium hydroxide | 561. | Silane (4-amino butyl) diethoxy-meth |
| 523. | Potassium nitride | 562. | Sodium |
| 524. | Potassium nitrite | 563. | Sodium anthra-quinone-1-sulphonate |
| 525. | Potassium peroxide | 564. | Sodium arsenate |
| 526. | Potassium silver cyanide | 565. | Sodium arsenite |
| 527. | Powdered metals and mixtures | 566. | Sodium azide |
| 528. | Promecarb | 567. | Sodium cacodylate |
| 529. | Promurit | 568. | Sodium chlorate |
| 530. | Propanesultone | 569. | Sodium cyanide |
| 531. | Propargyl alcohol | 570. | Sodium fluoro-acetate |
| 532. | Propargyl bromide | 571. | Sodium hydroxide |
| 533. | Propen-2-chloro-1,3-dioxi diacetate | 572. | Sodium pentachloro-phenate |
| 534. | Propiolactone beta | 573. | Sodium picramate |
| | | 574. | Sodium selenate |
| | | 575. | Sodium selenite |
| | | 576. | Sodium sulphide |
| | | 577. | Sodium tellorite |

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| 578. | Stannane acetoxy triphenyl | 618. | Thiometan |
| 579. | Stibine (Antimony hydride) | 619. | Thionazin |
| 580. | Strychnine | 620. | Thionyl chloride |
| 581. | Strychnine sulphate | 621. | Thiophenol |
| 582. | Styphnic acid (2, 4, 6-trinitroresorcinol) | 622. | Thiosemicarbazide |
| 583. | Styrene | 623. | Thiourea (2 chloro-phenyl) |
| 584. | Sulphotec | 624. | Thiourea (2-methyl phenyl) |
| 585. | Sulphoxide, 3-chloropropyl acyl | 625. | Tirpate (2,4-dimethyl-1,3-dithiolane) |
| 586. | Sulphur dichloride | 626. | Titanium powder |
| 587. | Sulphur dioxide | 627. | Titanium tetra-chloride |
| 588. | Sulphur monochloride | 628. | Toluene |
| 589. | Sulphur tetrafluoride | 629. | Toluene -2,4-di-isocyanate |
| 590. | Sulphur trioxide | 630. | Toluene 2,6-di-isocyanate |
| 591. | Sulphuric acid | 631. | Trans-1,4-di chloro-butene |
| 592. | Tellurim (powder) | 632. | Tri nitro anisole |
| 593. | Tellurium hexa fluoride | 633. | Tri (Cyclohexyl) methylstannyl 1,2,4 triazole |
| 594. | TEPP (Tetraethyl pyrophosphate) | 634. | Tri (Cyclohexyl) stannyl-1H-1, 2, 3-triazole |
| 595. | Terbufos | 635. | Triaminotrinitrobenzene |
| 596. | Tert-Butyl alcohol | 636. | Triamphos |
| 597. | Tert-Butyl peroxy carbonate | 637. | Triazophos |
| 598. | Tert-Butyl peroxy isopropyl | 638. | Tribromophenol 2, 4, 6 |
| 599. | Tert-Butyl peroxy acetate (Conc >=70%) | 639. | Trichloro naphthalene |
| 600. | Tert-Butyl peroxy pivalate (Conc >=77%) | 640. | Trichloro chloromethyl silane |
| 601. | Tert-Butyl peroxy iso-butyrate | 641. | Trichloroacetyl chloride |
| 602. | Tetra hydrofuran | 642. | Trichlorodichlorophenylsilane |
| 603. | Terta methyl lead | 643. | Trichloroethyl silane |
| 604. | Tetra nitromethane | 644. | Trichloroethyl ene |
| 605. | Tetra-chlorodibenzo-p-dioxin, 1, 2, 3, 7, 8(TCDD) | 645. | Trichloromethane sulphenyl chloride |
| 606. | Tetraethyl lead | 646. | Trichloronate |
| 607. | Tetrafluorethyne | 647. | Trichlorophenol 2, 3, 6 |
| 608. | Tetramethylene disulphotetramine | 648. | Trichlorophenol 2, 4, 5 |
| 609. | Thallic oxide | 649. | Trichlorophenyl silane |
| 610. | Thallium carbonate | 650. | Trichlorophon |
| 611. | Thallium sulphate | 651. | Triethoxy silane |
| 612. | Thalious chloride | 652. | Triethylamine |
| 613. | Thalious malonate | 653. | Triethylene melamine |
| 614. | Thalious sulphate | 654. | Trimethyl chlorosilane |
| 615. | Thiocarbazide | 655. | Trimethyl propane phosphite |
| 616. | Thiocynamic acid, 2(Benzothiazolyethio) methyl | 656. | Trimethyl tin chloride |
| 617. | Thiofamox | 657. | Trinitro aniline |
| | | 658. | Trinitro benzene |

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| 659. | Trinitro benzoic acid | 673. | Vinyl cyclohexane dioxide |
| 660. | Trinitro phenetole | 674. | Vinyl fluoride |
| 661. | Trinitro-m-cresol | 675. | Vinyl norbornene |
| 662. | Trinitrotoluene | 676. | Vinyl toluene |
| 663. | Tri-orthoecreysyl phosphate | 677. | Vinyledene chloride |
| 664. | Tripheyl tin chloride | 678. | Warfarin |
| 665. | Tris(2-chloroethyl)amine | 679. | Warfarin Sodium |
| 666. | Turpentine | 680. | Xylene dichloride |
| 667. | Uranium and its compounds | 681. | Xylidine |
| 668. | Valino mycin | 682. | Zinc dichloropentanitrile |
| 669. | Vanadium pentoxide | 683. | Zink phosphide |
| 670. | Vinyl acetate monomer | 684. | Zirconium & compounds |
| 671. | Vinyl bromide | | |
| 672. | Vinyl chloride | | |

SCHEDULE -5
(See Rules, 2(b) and 3)

S. No.	Authority(ies) with legal backing	Duties and corresponding Rule
(1)	(2)	(3)
1.	Ministry of Environment and Forests under Environment (Production) Act, 1986.	1. Notification of hazardous chemicals as per Rules 2(e)(i), 2(e) (ii) & 2(e) (iii)
2.	Chief Controller Imports & Exports under Import & Exports (Control) Act, 1947.	Import of hazardous chemicals as per Rule 18
3.	Central Pollution Control Board or State Pollution Control Board [or Committee] under Environment (Protection) Act, 1986, as the case may be.	(1) Enforcement of directions and procedures in respect of isolated storage of hazardous chemicals, regarding- (i) Notification of major accidents as per Rules 5(1) and 5(2) (ii) Notification of sites as per Rules 7 to 9. (iii) Safety reports in respect of isolated storages as per Rule 10 to 12. (iv) Preparation of on-site emergency plans as per Rule 13. (2) Import of hazardous Chemicals and enforcement of directions and procedures on import of hazardous chemicals as per Rule 18.
4.	Chief Inspector of Factories appointed under the Factories Act, 1948.	Enforcement of directions and procedures in respect of industrial installations and isolated storages covered under the Factories Act, 1948, dealing with hazardous chemicals and pipelines including inter-state pipelines regarding- (i) Notification of major accidents as per Rule 5(1) and 5(2). (ii) Notification of sites as per Rules, 7 to 9. (iii) Safety reports as per Rules, 10 to 12. (iv) Preparation of on-site emergency plans as per Rule 13. Preparation of off-site emergency plans in consultation with District Collector or District Emergency Authority as per S. No. 9 of this schedule.

¹ Inserted by Rule 13(i) of the MSBHC (Amendment) Rules, 2000 notified vide S.O. 571-F, dated 19.1.2000

S. No.	Authority(ies) with legal backing	Duties and corresponding Rule
(1)	(2)	(3)
5.	Chief Inspector of Dock Safety appointed under the Dock Workers (Safety, Health and Welfare) Act, 1986.	Enforcement of directions and procedures in respect of industrial installations and isolated storages dealing with hazardous chemicals and pipelines ¹ [inside a port covered under the Dock Workers (Safety, Health and Welfare) Act, 1986] regarding- (i) Notification of major accidents as per Rules 5(1) and 5(2). (ii) Notification of sites as per Rules 7 to 9. (iii) Safety reports as per Rules 10 to 12. (iv) Preparation of on-site emergency plans as per Rule 13. (v) Preparation of off-site emergency plans in consultation with District Collector or District Emergency Authority as per S. No.9 of this Schedule.
6.	Chief Inspector of Mines appointed under the Mines Act, 1952	Enforcement of directions and procedures in respect of industrial installations and isolated storages dealing with hazardous chemicals ² regarding - (i) Notification of major accidents as per Rules 5(1) and 5(2). (ii) Notification of sites as per Rules 7 to 9. (iii) Safety reports as per Rules 10 to 12. (iv) Preparation of on-site emergency plans as per Rule 13. (v) Preparation of off-site emergency plans in consultation with District Collector or District Emergency Authority as per S. No.9 of this Schedule.
7.	Atomic Energy Regulatory Board appointed under the Atomic Energy Act, 1972.	[Enforcement of directions and procedures regarding :- (a) Notification of major accidents as per rule 5(1) and 5(2) (b) Approval and Notification of Sites as per rule 7; (c) Safety report and safety audit

¹ Substituted by Rule 13(ii) of the MSIHCR (Amendment) Rules, 2000 notified vide S.O.5701, dated 19.1.2000;

² Omitted by Rule 13(iii), *ibid*;

³ Substituted by Rule 12(iv), *ibid*.

S. No.	Authority(ies) with legal backing	Duties and corresponding Rule
(1)	(2)	(3)
		reports as per rule 10 to 12: (d) Acceptance of On-site Emergency plans as per rule 13; (e) Assisting the District Collector in the preparation of Off-Site emergency plans as per serial number 9 of this Schedule]
8.	Chief Controller of Explosives appointed under the Indian Explosive Act and Rules, 1983	Enforcement of directions and procedures as per the provisions of [(i) The Explosives Act, 1884(4 of 1884) and the rules made thereunder, namely:- (a) The Gas Cylinders Rules, 1981; (b) The Static and Mobile Pressure Vessel (Unified) Rules, 1981; (c) The Explosive Rules, 1984 (ii) The petroleum Act, 1934 (30 of 1934) and the Rules made thereunder, namely: (a) The Petroleum Rules, 1976; (b) The Calcium Carbide Rules, 1987]; ² [and in respect of Industrial installation and isolated storages dealing with hazardous chemicals and pipelines including inter-state pipelines regarding: - (a) Notification of major accident as per rule 5; (b) Approval and notification of sites as per rule 7; (c) Safety report and safety audit reports as per rules 10 to 12; (d) Acceptance of On-site Emergency plans as per rule 13; (e) Assisting the District Collector in the preparation of Off-Site emergency plans as per serial number 9 of this Schedule.]

¹ Substituted by Rule 15 of the MSIH (Amendment) Rules, 1994, notified vide S.O.2882, dated 3.10.1994.

² Inserted by Rule 13 (v) of the MSIH (Amendment) Rules, 2000 notified vide S.O.5741, dated 19.1.2000

S. No.	Authority(ies) with legal backing	Duties and corresponding Rule
(1)	(2)	(3)
9.	District Collector or District Emergency Authority designated by the State Government	Preparation of off-site emergency plans as per Rule 14
[10.	[CENTRE FOR ENVIRONMENT AND EXPLOSIVE SAFETY (CEES), Defense Research and Development of Organisation (DRDO), Department of defence Research & Development, Ministry of Defence	Enforcement of directions and procedures in respect of laboratories, industrial establishment and isolated storages dealing with hazardous chemicals in the Ministry of Defence]

¹ Substituted by Rule 12(vi) of the MSHC (Amendment) Rules, 2000 notified vide S.O. No. 5701, dated 19.1.2001

² Inserted by G.S.R. 584(E), dated 9th June, 1990.