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# TAMIL NADU GOVERNMENT GAZETTE

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## Part III—Section 1(a)

**General Statutory Rules, Notifications, Orders, Regulations, etc., issued by Secretariat Departments.**

### NOTIFICATIONS BY GOVERNMENT

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DTP—III-1(a)-(27)

## NOTIFICATIONS BY GOVERNMENT

LABOUR AND EMPLOYMENT DEPARTMENT

**Amendments to the Tamil Nadu Control of Industrial Major Accident Hazards Rules.**

*[G.O. Ms. No. 61, Labour and Employment (M2), 24th May 2018,*
*வைகாசி **10**, விளம்பி, திருவள்ளுவர் ஆண்டு**–2049.**]*

No. SRO A-37/2018.—In exercise of the powers conferred by Section 112 read with sub-section (1) of Section 115 and Section 41-B of the Factories Act, 1948 (Central Act LXIII of 1948), the Governor of Tamil Nadu hereby makes the following amendments to the Tamil Nadu Control of Industrial Major Accident Hazards Rules, 1994 the draft of the same having been previously published as required by section 115 of the said Act.

AMENDMENTS.

In the said Rules,—

(1) in rule 2,-

(a) in clause (a), in sub-clause (i), for the expression "Schedule 1 and is", the expression, "Schedule 1 or" shall be substituted;

(b) in clause (b), after sub-clause (i), the following clauses shall be inserted, namely:-

"(ii) isolated storage; or

(iii) pipeline";

(c) after clause (d), the following clause shall be inserted, namely.-"(da)" major accident hazards (MAH) installations" means isolated storage and industrial activity at a site handling (including transport through carrier or pipeline) of hazardous chemicals equal to or, in excess of the threshold quantities specified in column 3 of Schedule 2 and 3 respectively".

(d) after clause (f) , the following clause shall be inserted, namely:-

(g) "threshold quantity" means, -

(i) in the case of a hazardous chemical specified in column (2) of Schedule 2, the quantity of that chemical specified in the corresponding entry in columns (3) and (4);

(ii) in the case of a hazardous chemical specified in column (2) of Part I of Schedule 3, the quantity of that chemical specified in the corresponding entries in columns (3) and (4) of that part;

(iii) in the case of substances of a class specified in column (2) of Part II of schedule 3, the total quantity of that chemical specified in the corresponding entries in columns (3) and (4) of that part. -

(2) in rule 4,-

(a) in sub-rule (1).-

(i) in clause (a), for the expression "and is listed", the expression "or listed" shall be substituted;

(ii) for clause (b), the following clause shall be substituted, namely:-

"(b) isolated storage of a hazardous chemical listed in Schedule 2 in a quantity equal to or more than the threshold quantity specified in column (3), thereof";

(3) in rule 7, for the marginal heading "Notification of sites", the heading "Approval and Notification of sites" shall be substituted;

(4) for schedule 1 and the entries relating thereto, the following Schedule and entries shall be substituted, namely:-

"SCHEDULE -1.

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

(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:

| *Serial Number.* | *Toxicity* | *Oral toxicity LD 50 (mg/kg)* | *Dermal toxicity LD 50 (mg/kg)* | *Inhalation toxicity Lc 50, (mg/litre)* |
|---|---|---|---|---|
| *(1)* | *(2)* | *(3)* | *(4)* | *(5)* |
| 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:

(1) Flammable gases.-

Gases which at 20° C and at standard pressure of 101.3 KPa are:-

(i) ignitable when in a mixture of 13 per cent or less by volume with air: or

(ii) 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 leads by tests or by calculation in accordance with methods adopted by International Standards Organization ISO Number 10156 of 1990 or by Bureau of Indian Standards ISI Number 1446 of 1985.

(2) Extremely flammable liquids.- Chemicals which have flash point lower than or equal to 23° C and boiling point less than 35° C

(3) 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

(4) Highly inflammable liquids.- Chemicals which have a flash point lower than or equal to 60° C but higher than 23° C

(5) Flammable liquids,- Chemicals which have a flash point higher than 60° C but lower than 90°

(C) EXPLOSIVES: Explosives means a solid or liquid or pyrotechnic substance (or a mixture of substances) or an article.-

(i) 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;

(ii) 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 reaction.

**PART-II.**

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 1. | Acetaldehyde |
| 2. | Acetic acid |
| 3. | Acetic anhydride |
| 4. | Acetone |
| 5. | Acetone cyanohydrin |
| 6. | Acetone thiosemicarbazide |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 7. | Acetonitrile |
| 8. | Acetylene |
| 9. | Acetylene tetra chloride |
| 10. | Acrolein |
| 11. | Acrylamide |
| 12. | Acrylonitrile |
| 13. | Adiponitrile |
| 14. | Aldicarb |
| 15. | Aldrin |
| 16. | Allyl Alcohol |
| 17. | Allyl amine |
| 18. | Allyl chloride |
| 19. | Aluminium (powder) |
| 20. | Aluminium azide |
| 21. | Aluminium borohydride |
| 22. | Aluminium chloride |
| 23. | Aluminium fluoride |
| 24. | Aluminium phosphide |
| 25. | Amino diphenyl |
| 26. | Amino pyridine |
| 27. | Aminophenol-2 |
| 28. | Aminopterin |
| 29. | Amiton |
| 30. | Amiton dialate |
| 31. | Ammonia |
| 32. | Ammonium Chloro platinate |
| 33. | Ammonium nitrate |
| 34. | Ammonium nitrite |
| 35. | Ammonium picrate |
| 36. | Anabasine |
| 37. | Aniline |
| 38. | Aniline 2,4,6-trimethyl |
| 39. | Anthraquinone |
| 40. | Antimony pentafluoride |
| 41. | Antimycin A |
| 42. | ANTU |
| 43. | Arsenic pentoxide |
| 44. | Arsenic trioxide |
| 45. | Arsenic trichloride |
| 46. | Arsine |
| 47. | Asphalt |
| 48. | Azinphos-ethyl |
| 49. | Azinphos-methyl |
| 50. | Bacitracin |
| 51. | Barium azide |
| 52. | Barium nitrate |
| 53. | Barium nitride |
| 54. | Benzal chloride |
| 55. | Benzenamine, 3-trifluoromethyl |
| 56. | Benzene |
| 57. | Benzene sulfonyl chloride |
| 58. | Benzene, 1-(chloromethyl) -4 Nitro |
| 59. | Benzene arsenic acid |
| 60. | Benzidine |
| 61. | Benzidine Salts |
| 62. | Benzimidazole, 4,5-Dichloro-2 (Trifluoromethyl) |
| 63. | Benzoquinone-P |
| 64. | Benzotrichloride |
| 65. | Benzoyl chloride |
| 66. | Benzoyl peroxide |
| 67. | Benzyl chloride |
| 68. | Beryllium (powder) |
| 69. | Bicyclo (2,2,1) Heptane-2-carbonitrile |
| 70. | Biphenyl |
| 71. | Bis (2-Chloroethyl) sulphide |
| 72. | Bis (Chloromethyl) ketone |
| 73. | Bis (Tert-butylperoxy) cyclo–hexane |
| 74. | Bis(Tert-butyl peroxy)butane |
| 75. | Bis(2,4,6-Trimitrophenylamine) |
| 76. | Bis (Chloromethyl)Ether |
| 77. | Bismuth and compounds |
| 78. | Bisphenol-A |
| 79. | Bitoscanate |
| 80. | Boron Powder |
| 81. | Boron trichloride |
| 82. | Boron trifluoride |
| 83. | Boron trifluoride comp. With methylether, 1:1 |
| 84. | Bromine |
| 85. | Bromine penta flouride |
| 86. | Bromo chloro methane |
| 87. | Bromodialone |
| 88. | Butadiene |
| 89. | Butane |
| 90. | Butanone-2 |
| 91. | Butyl amine tert |
| 92. | Butyl glycidal ether |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 93. | Butyl lsovalerate |
| 94. | Butyl peroxymaleate tert |
| 95. | Butylvinyl 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. | Cantharidine |
| 105. | Captan |
| 106. | Carbachol chloride |
| 107. | Carbaryl |
| 108. | Carbofuran (Furadan) |
| 109. | Carbon tetrachloride |
| 110. | Carbon disulphide |
| 111. | Carbon monoxide |
| 112. | Carbophenothion |
| 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. | Chlormequat 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 cornpounds |
| 147. | Copper oxychloride |
| 148. | Coumafuryl |
| 149. | Coumaphos |
| 150. | Coumatetralyl |
| 151. | Crimidine |
| 152. | Crotenaldehyde |
| 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. | cyclopentadine |
| 165. | Cyclopentane |
| 166. | Cyclotetramethylenetetranitramine |
| 167. | Cyclotrimethylenetrinitramine |
| 168. | Cypermethrin |
| 169. | DDT |
| 170. | Decaborane (1:4) |
| 171. | Demeton |
| 172. | Demeton S-Methyl |
| 173. | Di-n-propyl peroxy dicarbonate ( Conc=80%) |
| 174. | Dialifos |
| 175. | Diazodinitrophenol |
| 176. | Dibenzyl-peroxydicarbonate ( Conc> =90%) |
| 177. | Diborane |
| 178. | Dichloroacetylene |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 179. | Dichlorobenzalkonium chloride |
| 180. | Dichloroethyl ether |
| 181. | Dichloromethyl phenylsilane |
| 182. | Dichlorophenol-2,6 |
| 183. | Dichlorophenol-2,4 |
| 184. | Dichlorophenoxy acetic acid |
| 185. | Dichloropropane-2,2 |
| 186. | Dichlorosalicylic acid-3,5 |
| 187. | Dichlorovos (DDVP) |
| 188. | Dicrotophos |
| 189. | Dieldrin |
| 190. | Diepoxy butane |
| 191. | Diethyl carbamazine citrate |
| 192. | Diethyl chloro phosphate |
| 193. | Diethyl ethanolamine |
| 194. | Diethyl Peroxydicarbonate (Conc=30%) |
| 195. | Diethyl phenylene diamine |
| 196. | Diethylamine |
| 197. | Diethylene glycol |
| 198. | Diethylene glycol dinitrate |
| 199. | Diethylene triamine |
| 200. | Diethyleneglycol butyl ether |
| 201. | Diglycidyl ether |
| 202. | Digitoxin |
| 203. | Dihydroperoxypropane (Conc>= 30%) |
| 204. | Diisobutyl peroxide |
| 205. | Dimefox |
| 206. | Dimethoate |
| 207. | Dimethyl dichlorosilane |
| 208. | Dimethyl hydrazine |
| 209. | Dimethyl nitrosoamine |
| 210. | Dimethyl phenylene diamine |
| 211. | Dimethyl phosphoramidicyanidic acid (TABUM) |
| 212. | Dimethyl phosphorochloridothioate |
| 213. | Dimethyl sulfolane (DMS) |
| 214. | Dimethyl sulphide |
| 215. | Dimethylamine |
| 216. | Dimethylaniline |
| 217. | Dimethyl carbonyl chloride |
| 218. | Dimetilan |
| 219. | Dinitro-o-cresol |
| 220. | Dinitrophenol |
| 221. | Dinitrotoluene |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 222. | Dinoseb |
| 223. | Dinoterb |
| 224. | Dioxane-P |
| 225. | Dioxathion |
| 226. | Dioxine N |
| 227. | Diphacinone |
| 228. | Diphosphoramide octamethyl |
| 229. | Diphenyl methane di-isocynate (MDI) |
| 230. | Dipropylene Glycol Butyl ether |
| 231. | Dipropylene glycolmethylether |
| 232. | Disec-butyl peroxydicarbonite (Conc>80%) |
| 233. | Disulfoton |
| 234. | Dithiazamine iodide |
| 235. | Dithiobiurate |
| 236. | Endosulfan |
| 237. | Endothion |
| 238. | Endrin . |
| 239. | Epichlorohydrine |
| 240. | EPN |
| 241. | Ergocalciferol |
| 242. | Ergotamine tartarate |
| 243. | Ethanesulfenyl chloride, 2 chloro |
| 244. | Ethanol 1-2 dichloracetate |
| 245. | Ethion |
| 246. | Ethoprophos |
| 247. | Ethyl acetate |
| 248. | Ethyl alcohol |
| 249. | Ethyl benzene |
| 250. | Ethyl bis amine |
| 251. | Ethyl bromide |
| 252. | Ethyl carbamate |
| 253. | Ethyl ether |
| 254. | Ethyl hexanol-2 |
| 255. | Ethyl mercaptan |
| 256. | Ethyl mercuric phosphate |
| 257. | Ethyl methacrylate |
| 258. | Ethyl nitrate |
| 259. | Ethyl thiocyanate |
| 260. | Ethylamine |
| 261. | Ethylene |
| 262. | Ethylene chlorohydrine |
| 263. | Ethylene dibromide |
| 264. | Ethylene diamine |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 265. | Ethylene diamine hydrochloride |
| 266. | Ethylene flourohydrine |
| 267. | Ethylene glycol |
| 268. | Ethylene glycol dinitrate |
| 269. | Ethylene oxide |
| 270. | Ethylenimine |
| 271. | Ethylene dichloride |
| 272. | Femamiphos |
| 273. | Femitrothion |
| 274. | Fensulphothion |
| 275. | Fluemetil |
| 276. | Fluorine |
| 277. | Fluoro 2-hydroxy butyric acid, amid salt ester |
| 278. | Fluoroacetamide |
| 279. | Fluoroacetic acid amide salts esters |
| 280. | Fluoroacetyl chloride |
| 281. | Fluorobutyric acid amide salt esters |
| 282. | Fluorocrotonic acid amides salts esters |
| 283. | Fluorouracil |
| 284. | Fonofos |
| 285. | Formaldehyde |
| 286. | Formetanate hydrochloride |
| 287. | Formic acid |
| 288. | Formoparanate |
| 289. | Formothion |
| 290. | Fosthiotan |
| 291. | Fuberidazole |
| 292. | Furan |
| 293. | Gallium Trichloride |
| 294. | Glyconitrile (Hydroxyacetonitrile) |
| 295. | Guanyl-4-nitrosaminoguynyl-1-tetrazene |
| 296. | Heptachlor |
| 297. | Hexamethyl–tetra -oxyacyclononate (Conc 75%) |
| 298. | Hexachlorobenzene |
| 299. | Hexachlorocyclohexane (Lindane) |
| 300. | Hexachlorocyclopentadiene |
| 301. | Hexachlorodibenzo-p-dioxin |
| 302. | Hexachloronapthalene |
| 303. | Hexafluoropropanone sesquihydrate |
| 304. | Hexamethyl phosphoramide |
| 305. | Hexamethylene diamine NN dibutyl |
| 306. | Hexane |
| 307. | Hexanitrostilbene 2 2 4 4 6 6 |
| 308. | Hexene |
| 309. | Hydrogen selenide |
| 310. | Hydrogen sulphide |
| 311. | Hydrazine |
| 312. | Hydrazine nitrate |
| 313. | Hydrochloric acid(Gas) |
| 314. | Hydrogen |
| 315. | Hydrogen bromide |
| 316. | Hydrogen cyanide |
| 317. | Hydrogen fluoride |
| 318. | Hydrogen peroxide |
| 319. | Hydroquinone |
| 320. | Indene |
| 321. | Indium powder |
| 322. | Indomethacin |
| 323. | Iodine |
| 324. | Iridium tetrachloride |
| 325. | Ironpentacarbonyl |
| 326. | Iso benzan |
| 327. | Isoamyl alcohol |
| 328. | Isobutyl alcohol |
| 329. | Isobutyro nitrile |
| 330. | Isocyanic acid 3,4-dichlorophenyl ester |
| 331. | Isodrin |
| 332. | Isofluorophosphate |
| 333. | Isophorone diisocyanate |
| 334. | Isopropyl alcohol |
| 335. | Isopropyl chlorocarbonate |
| 336. | Isopropyl formate |
| 337. | Isopropyl methyl pyrazolyl dimethyl carbamate |
| 338. | Juglone (5-Hydroxy Napthalene–1, 4 dione) |
| 339. | Ketene |
| 340. | Lactonitrile |
| 341. | Lead arsenite |
| 342. | Lead at high temp (molten) |
| 343. | Lead azide |
| 344. | Lead styphanate |
| 345. | Leptophos |
| 346. | Lenisite |
| 347. | Liquified petroleum gas (LPG) |
| 348. | Lithium hydride |
| 349. | N–Dinitrobenzene |
| 350. | Magnesium powder or ribbon |
| 351. | Malathion |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 352. | Maleic anhydride |
| 353. | Malononitrile |
| 354. | Manganese Tricarbonyl cyclopentadiene |
| 355. | Mechlor ethamine |
| 356. | Mephospholan |
| 357. | Mercuric chloride |
| 358. | Mercuric oxide |
| 359. | Mercury acetate |
| 360. | Mercury fulminate |
| 361. | Mercury methyl chloride |
| 362. | Mesitylene |
| 363. | Methacrolein diacetate |
| 364. | Methacrylic anhydride |
| 365. | Methacrylonitrile |
| 366. | Methacryloyl oxyethyl isocyanate |
| 367. | Methanidophos |
| 368. | Methane |
| 369. | Methanesulphonyl fluoride |
| 370. | Methdathion |
| 371. | Methiocarb |
| 372. | Methonyl |
| 373. | Methoxy ethanol (2-Methyl cellosolve) |
| 374. | Methoxyethyl mercuric acetate |
| 375. | Methacryloyl chloride |
| 376. | Methyl 2-chloroacrylate |
| 377. | Methyl alcohol |
| 378. | Methyl amine |
| 379. | Methyl bromide (Bromomethane) |
| 380. | Methyl chloride |
| 381. | Methyl chloroform |
| 382. | Methyl chloroformate |
| 383. | Methyl cyclohexene |
| 384. | Methyl disulphide |
| 385. | Methyl ethyl ketone peroxide (conce. 60 %) |
| 386. | Methyl formate |
| 387. | Methyl hydrazine |
| 388. | Methyl isobutyl ketone |
| 389. | Methyl isocyanate |
| 390. | Methyl isothiocyanate |
| 391. | Methyl mercuric dicyanamide |
| 392. | Methyl mercaptan |
| 393. | Methyl methacrylate |
| 394. | Methyl phencapton |
| 395. | Methyl phosphonic dichloride |
| 396. | Methyl thiocyanate |
| 397. | Methyl trichlorosilane |
| 398. | Methyl vinyl ketone |
| 399. | Methylene bis (2-chloroaniline) |
| 400. | Methylene chloride |
| 401. | Methylenebis-4,4 (2–chloroaniline) |
| 402. | Metolcarb |
| 403. | Mevinphos |
| 404. | Mezacarbate |
| 405. | Mitomycin C |
| 406. | Molybdenum powder |
| 407. | Monocrotophos |
| 408. | Morpholine |
| 409. | Muscinol |
| 410. | Mustard gas |
| 411. | N- Butyl acetate |
| 412. | N-Butyl alcohol |
| 413. | N- Hexane |
| 414. | N-Methyl-N,2, 4, 6- Tetranitroaniline |
| 415. | Naphtha |
| 416. | Naphtha solvent |
| 417. | Naphthalene |
| 418. | Naphthyl amine |
| 419. | Nickel carbony /Nickel tetracarbonyl |
| 420. | Nickel powder |
| 421. | Nicotine |
| 422. | Nicotine sulphate |
| 423. | Nitric acid |
| 424. | Nitric oxide |
| 425. | Nitrobenzene |
| 426. | Nitrocellulose (dry) |
| 427. | Nitrochlorobenzene |
| 428. | Nitrocyclohexane |
| 429. | Nitrogen |
| 430. | Nitrogen dioxide |
| 431. | Nitrogen oxide |
| 432. | Nitrogen trifluoride |
| 433. | Nitroglycerine |
| 434. | Nitropropane-1 |
| 435. | Nitropropane-2 |
| 436. | Nitroso dimethyl amine |
| 437. | Nonane |
| 438. | Norbormide |
| 439. | O-Cresol |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 440. | O-Nitro Toluene |
| 441. | O-Toludine |
| 442. | O-Xylene |
| 443. | O/p- Nitroaniline |
| 444. | Oleum |
| 445. | OO Diethyl S ethyl suph methyl phos |
| 446. | OO-Diethyl-S-propythio methyl phosdithioate |
| 447. | OO-Diethyl-S-ethylsulphinylmethyl phosphorothioate |
| 448. | OO-Diethyl-S-ethylsulphonylmethyl phosphorothioate |
| 449. | OO-Diethyl S-ethylthiomethyl phosphorothioate |
| 450. | Organo rhodium complex |
| 451. | Orotic acid |
| 452. | Osmium tetroxide |
| 453. | Oxabain |
| 454. | Oxamyl |
| 455. | Oxetane 3;3-bis( chloromethyl) |
| 456. | Oxidiphenoxarsine |
| 457. | Oxydisulfoton |
| 458. | Oxygen (liquid) |
| 459. | Oxygen difluoride |
| 460. | Ozone |
| 461. | P-Nitrophenol |
| 462. | Paraffin |
| 463. | Paraoxon (Diethyl 4 Nitropheynl phosphate) |
| 464. | Paraquat |
| 465. | Paraquat methosulphate |
| 466. | Parathion |
| 467. | Parathion methyl |
| 468. | Paris green |
| 469. | Penta borane |
| 470. | Penta chloro ethane |
| 471. | Penta chlorophenol |
| 472. | Pentabromophenol |
| 473. | Pentachloro naphthalene |
| 474. | Pentadecylamine |
| 475. | Pentaerythritol tetranitrate |
| 476. | Pentane |
| 477. | Pentanone |
| 478. | Perchloric acid |
| 479. | Perchloroethylene |
| 480. | Peroxyacetic acid |
| 481. | Phenol |
| 482. | Phenol, 2,2-thiobis (4,6–dichloro) |
| 483. | Phenol, 2,2-thiobis (4-chloro 6-methyl phenol) |
| 484. | Phenol, 3- (1-methyl ethyl)-methylcarbamate |
| 485. | Phenyl hydrazine hydrochloride |
| 486. | Phenyl mercury acetate |
| 487. | Phenyl silatrane |
| 488. | Phenyl thiourea |
| 489. | Phenylene p-diamine |
| 490. | Phorate |
| 491. | Phosazetin |
| 492. | Phosfolan |
| 493. | Phosgene |
| 494. | Phosmet |
| 495. | Phosphamidon |
| 496. | Phosphine |
| 497. | Phosphoric acid |
| 498. | Phosphoric acid dimethyl (4- methyl thio) phenyl |
| 499. | Phosphorothioic acid dimethyl S ( 2–Bis) ester |
| 500. | Phosphorothioic acid methyl (ester) |
| 501. | Phosphorothioic acid, OO-dimethyl S-(2-methyl) |
| 502. | Phosphorothioic, methylethyl ester |
| 503. | Phosphorous |
| 504. | Phosphorous oxychloride |
| 505. | Phosphorous pentoxide |
| 506. | Phosphorous trichloride |
| 507. | Phosphorous pentachloride |
| 508. | Phthalic anhydride |
| 509. | Phylloquinone |
| 510. | Physostignine |
| 511. | Physostignine Salicylate (1.1) |
| 512. | Picric acid (2, 4, 6 -trinitrophenol) |
| 513. | Picrotoxin |
| 514. | Piperdine |
| 515. | Piprotal |
| 516. | Pirinifos-ethyl |
| 517. | Platinous chloride |
| 518. | Platinum tetrachloride |
| 519. | Potassium arsenite |
| 520. | Potassium chlorate |
| 521. | Potassium cyanide |
| 522. | Potassium hydroxide |
| 523. | Potassium nitride |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 524. | Potassium nitrite |
| 525. | Potassium peroxide |
| 526. | Potassium silver cyanide |
| 527. | Powdered metals and mixtures |
| 528. | Promecarb |
| 529. | Promurit |
| 530. | Propanesultone |
| 531. | Propargyl alcohol |
| 532. | Propargyl bromide |
| 533. | Propen -2-chloro-1, 3-dion diacetate |
| 534. | Propiolactone beta |
| 535. | Propionltrtie |
| 536. | Propionitrile, 3-chloro |
| 537. | Propiophenone,4-amino |
| 538. | Propyl chloroformate. |
| 539. | Propylene dichloride |
| 540. | Propylene glycol, allylether |
| 541. | Propylene imine |
| 542. | Propylene oxide |
| 543. | Prothoate |
| 544. | Pseudocumene |
| 545. | Pyrazoxon |
| 546. | Pyrene |
| 547. | Pyridine |
| 548. | Pyridine, 2-methyl-3-vinyl |
| 549. | Pyridine, 4-nitro-1-oxide |
| 550. | Pyriminil |
| 551. | Quinalphos |
| 552. | Quinone |
| 553. | Rhodium trichloride |
| 554. | Salcomine |
| 555. | Sarin |
| 556. | Selenious acid |
| 557. | Selenium hexafluoride |
| 558. | Selenium oxychloride |
| 559. | Semicarbazide hydrochloride |
| 560. | Silane (4-amino butyl) diethoxy-methyl |
| 561. | Sodium |
| 562. | Sodium anthra-quinone-1-sulphonate |
| 563. | Sodium arsenate |
| 564. | Sodium arsenite |
| 565. | Sodium azide |
| 566. | Sodium cacodylate |
| 567. | Sodium chlorate |
| 568. | Sodium cyanide |
| 569. | Sodium fluoro-acetate |
| 570. | Sodium hydroxide |
| 571. | Sodium pentachloro-phenate |
| 572. | Sodium picramate |
| 573. | Sodium selenate |
| 574. | Sodium selenite |
| 575. | Sodium sulphide |
| 576. | Sodium tellorite |
| 577. | Stannane acetoxy triphenyl |
| 578. | Stibine (Antimony hydride) |
| 579. | Strychnine |
| 580. | Strychnine sulphate |
| 581. | Styphinic acid (2,4,6-trinitroresorcinol) |
| 582. | Styrene |
| 583. | Sulphotec |
| 584. | Sulphoxide, 3-chloropropyl octyl |
| 585. | Sulphur dichloride |
| 586. | Sulphur dioxide |
| 587. | Sulphur monochloride |
| 588. | Sulphur tetrafluoride |
| 589. | Sulphur trioxide |
| 590. | Sulphuric acid |
| 591. | Tellurium (Powder) |
| 592. | Tellurium hexafluoride |
| 593. | Tetraethyl pyrophosphate (TEPP) |
| 594. | Terbufos |
| 595. | Tert - Butyl alcohol |
| 596. | Tert-Butyl peroxy carbonate |
| 597. | Tert-Butyl peroxy isopropyl |
| 598. | Tert-Butyl peroxyacetate (Con> =70%) |
| 599. | Tert-Butyl peroxypivalate (Con> =77%) |
| 600. | Tert Butyperoxyiso-butyrate |
| 601. | Tetra hydrofuran |
| 602. | Tetramethyl lead |
| 603. | Tetranitromethane |
| 604. | Tetra-chlorodibenzo-p dioxin,l, 2, 3, 7, 8, (TCDD) |
| 605. | Tetraethyl lead |
| 606. | Tetrafluoriethyne |
| 607. | Tetramethylene disulphotetramine |
| 608. | Thallic oxide |
| 609. | Thallium carbonate |
| 610. | Thallium sulphate |

| *Serial Number.* | *List of Hazardous Chemicals.* |
|---|---|
| *(1)* | *(2)* |
| 611. | Thallous chloride |
| 612. | Thallous malonate |
| 613. | Thallous sulphate |
| 614. | Thiocarbazide |
| 615. | Thiocynamicacid, 2 - (Benzothiazolyethio) methyl |
| 616. | Thiofamox |
| 617. | Thiometon |
| 618. | Thionazin |
| 619. | Thionyl chloride |
| 620. | Thiophenol |
| 621. | Thiosemicarbazide |
| 622. | Thiourea (2- chloro -phenyl) |
| 623. | Thiourea (2- methyl phenyl) |
| 624. | Tirpate (2,4 -dimethyl-1, 3-di-thiolane) |
| 625. | Titanium powder |
| 626. | Titanium tetra-chloride |
| 627. | Toluene |
| 628. | Toluene 2,4-diisocyanate |
| 629. | Toluene 2,6-diisocyanate |
| 630. | Trans-1, 4-dichloro - butene |
| 631. | Tri nitre anisole |
| 632. | Tri (Cyclohexyl) methylstannyl 1,2,4 triazole |
| 633. | Tri (Cyclohexyl) stannyl-1H-1, 2, 3-triazole |
| 634. | Triaminotrinitrobenzene |
| 635. | Triamphos |
| 636. | Triazophos |
| 637. | Tribromophenol 2, 4, 6 |
| 638. | Trichloro napthalene |
| 639. | Trichloro chloromethyl silane |
| 640. | Trichloroacetyl chloride |
| 641. | Trichlorodichlorophenylsilane |
| 642. | Trichloroethyl silane |
| 643. | Trichloroethylene |
| 644. | Trichloromethane sulphenyl chloride |
| 645. | Trichloronate |
| 646. | Trichlorophenol 2, 3, 6 |
| 647. | Trichlorophenol 2, 4, 5 |
| 648. | Trichlorophenyl silane |
| 649. | Tricholorophon |
| 650. | Triethoxy silane |
| 651. | Triethylamine |
| 652. | Triethylene melamine |
| 653. | Trimethyl chlorosilane |
| 654. | Trimethyl propane phosphite |
| 655. | Trimethyl tin chloride |
| 656. | Trinitro aniline |
| 657. | Trinitro benzene |
| 658. | Trinitro benzoic acid |
| 659. | Trinitrophenetole |
| 660. | Trinitro-m-cresol |
| 661. | Trinitro toluene |
| 662. | Triorthocresyl phosphate |
| 663. | Triphenyl tin chloride |
| 664. | Tris (2-chloroethyl)amine |
| 665. | Turpentine |
| 666. | Uranium and its compounds |
| 667. | Valinomycin |
| 668. | Vanadium pentoxide |
| 669. | Vinyl acetate monomer |
| 670. | Vinyl bromide |
| 67l. | Vinyl chloride |
| 672. | Vinyl cyclohexane dioxide |
| 673. | Vinyl fluoride |
| 674. | Vinyl norbornene |
| 675. | Vinyl toluene |
| 676. | Vinyledene chloride |
| 677. | Warfarin |
| 678. | Warfarin sodium |
| 679. | Xylene dichloride |
| 680. | Xylidine |
| 681. | Zinc dichloropentanitrile |
| 682. | Zinc phosphide |
| 683. | Zirconium and compounds."; |

(5) in SCHEDULE 2, in the tabular column.-

(a) under the heading "Threshold Quantities (tonnes)",-

(i) for the entry relating to column 3, the following entry shall be substituted, namely:- "For application of rules 4,5,7,8,13 and 15";

(ii) for the entry relating to column 4, the following entry shall be substituted, namely:- "For application of rules 10,11 and 12";

(b) for serial number 7 and the entries relating thereto, the following serial number and entries shall, respectively, be substituted, namely:-

"7. Extremely flammable liquids as defined in

Schedule 1, Paragraph (b )(2) 5,000 5,000";

(c) after serial number 27 ann the entries relating thereto, the following serial numbers and entries shall, respectively, be added, namely:-

"28. Very Highly flammable liquids as defined in Schedule 1, Paragraph (b) (3) 7,000 7,000

29. Highly Flammable liquids as defined in Schedule 1 paragraph (b) (4) 10,000' 10,000.

30. Flammable liquids as defined in Schedule 1,paragraph (b)(5)" 15,000 1,00,000;

(6) in SCHEDULE 3,-

(a) In PART I, in the tabular column, under the sub-heading" "Group 4,- Explosive Chemicals" against serial numbers 150,163,164 and 165, in column (1), for the entry in column (3), the entry" "l00 Kg" shal, respectively, be substituted": -

(b) for PART II and the entries relating thereto, the following shall be substituted, namely:-

**"PART- II**

Classes of substances as defined in PART- 1, SCHEDULE -1 and not specifically named in PART - I.

| Serial Number | Classes of Chemicals | Threshold Quantity | |
|---|---|---|---|
| | | For application of rules 4,5,7,8,13, and 15 (tonnes) | For application of rules 10,11, and 12 (Tonnes) |
| (1) | (2) | (3) | (4) |
| | Group 5 - Flammable Chemicals: | | |
| 1 | Flammable Gases | 15 | 200 |
| 2 | Extremely flammable liquids | 1000 | 5000 |
| 3 | Very highly flammable liquids | 1500 | 10000 |
| 4 | Highly flammable liquids which remains liquids under pressure | 25 | 200 |
| 5 | Highly Flammable liquids | 2500 | 20000 |
| 6 | Flammable liquids | 5000 | 50000". |

7. In SCHEDULE 4, in item 4 for the expression "production, processing", the expression "production, processing, use", shall be substituted.

MANGAT RAM SHARMA.
*Principal Secretary to Government.*

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