

MANUFACTURE, STORAGE AND IMPORT OF HAZARDOUS CHEMICAL (AMENDMENT) RULES 2000

z0p REGD. NO. D. L.-33004/99 Che Gazette of •tidia 42] No. 421 EXTRAORDINARY PART n—
Section 3—Sub-section (ii) PUBLISHED BY AUTHORITY R*r, 20, 30, 1921 NEW DELHI,
THURSDAY, JANUARY 20, 2000/PAUSA 30, 1921 19 fiqq, 1989 qor, fiqi æi. 25(30 21 1999 4 1999
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157. THE GAZETTE OF : EXTRAORDINARY 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168.
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324. THE GAZETTE OF INDIA : EXTRAORDINARY [PART 11 —SEC. 3(ii)) 325. . 326. 327. 328.
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**492. THE GAZETTE OF INDIA EXTRAORDINARY [PART 11—SEC. 2,2-frFiTfr-e (4, 6 2, (4 6
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667. THE GAZETTE, OF INDIA : EXTRAORDINARY 626. 632. 1-4, 2, (2-*Rß21Tfi) •z@qvra
[PART 11 —SEC. 3(ii)] 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683.

684. 10. 20 (i) (q) (ii) (iii) 29. 30. gffizz?i 5, 7 9 15 7. (ii) sooo 50,000" 27 fifzzif Afifi:zqi 3-i7: 28. 7,000 7,000 (iv) 10,000 10,000 15,000 3(ii)] 11. . 150, 160, 163, 164 165 3 FTQT: 100 (ii) 2 •..TPT 2 • 3TqTt-.TRTIT 11 2 2. 3. 4. 5. 3 15 a 1 oooâ 1500 25 2500 5000 4 200 5000 -ét 10000 200 20000 50000 12. 4 4 (i) (ii) (iii) (iv) •.frax" (3fifrq, 1986* yfrfzqi MTQft, (z:) (v) (z:) (vi) (2) (3) 10 — 12 ft*ré; frag, 1987" ft-qq 7 ; 10-12 13 e-IN17 17-4/90 m. 966 (\$) 27-11-89 •rrq 584, 115 G), -2-90 2882, 3-10-94 12 GAZETTE OF INDIA • EXTRAORDINARY MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION New Delhi, the 19th January, 2000 [PART II—SEC. 3(ii)] s.o. S7(E).— Whereas certain draft rules further to amend the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 were published under the notification of the Government of India in the Ministry of Environment and Forests number S O. 25(E) dated 21st January, 1999 inviting objections and suggestions from ail persons likely to be affected thereby before the expiry of the period of sixty days from the date on which the copies of the Gazette containing the said notification are made available to the public; And whereas copies of the said Gazette were made available to the public on the 4th March, 1999; And whereas objections and suggestions received from the public in respect of the said draft rules have been duly considered by the Central Government; Now, therefore, in exercise of the powers conferred by sections 6,8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, namely: - the Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000. (1) These rules may be called the Manufacture, Storage and Import of 1. Hazardous Chemical (Amendment) Rules, 2000. (2) They shall come into force on the date of their publication in the Official Gazette. 2. 3. 4. 5. 3(ii)] In the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (hereinafter referred to as the said rules), in rule 2,- in clause (e) for the words and figure "Schedule-I and is" the words and figure "Schedule-I or" shall be substituted; for clause (j), the following clauses shall be substituted, namely;- '(j) "major accident" means - an incident involving loss of life inside or outside the instalation, or ten or more injuries inside and/or one or more injuries outside or release of toxic chemicals or explosion or fire or spillage of hazardous chemicals resulting in on-site or off-site emergencies or damage to equipment leading to affects adverse of stoppage or process environment; (ja) "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;' In rule 40f the said rules in sub-rule (1), - "and is listed", the words "or listed" in clause (a), for the words shall be substituted; 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." In rule 6 of the said rules, in sub-rule (1), in clause (b) for the words and figure "Column 4", the words, figures and brackets "Columns 3 and 4 (rules 10-12 only for column 4)" shall be substituted. In rule 7 of the said rules, for the marginal heading "Notification of sites" the heading "Approval and Notification of sites" shall be substituted. 13 THE GAZETTE OF INDIA : EXTRAORDINARY [PART 11—SEC. 3(ii)] 6. 8

9. In rule 10 of the said rules, for the marginal heading "Safety Reports" the "Safety reports and safety audit reports" shall be marginal heading substituted. In rule 17 of the said rules, in sub-rule (1) for the words "and is listed" the words "or listed " shall be substituted. In rule 18 of the said rules, in sub-rule (1), for the words "and is listed" the words "or listed " shall be substituted. In the said rules, for Schedule-I and the entries relating thereto, the following Schedule and entries shall be substituted, namely :- SCHEDULE I [See rule 2e(i), 4(2), 17 and 18] (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: Sr.No Toxicity Oral toxicity LD50(mg/kg) 1. Extremely toxic Dermat toxicity Inhalation toxicity LD50(mg/kg) >40-200 > 200-1000 LC50(mg/l) < 0.5 2. Highly toxic 3. Toxic (b) Flammable Chemicals: >5-50 >50-200 flammable gases: Gases which at 200C and at standard pressure of (i) 101.3 KPa are:- (a) ignitable when in a mixture of 13 percent or less by volume with 3(ii)] 15 12 (b) have a flammable range with air of at least percentage points regardless of the lower flammable limits. (ii) Note: - The flammability shall be determined by tests or by calculation in accordance with methods adopted by International Standards Organisation ISO Number 10156 of 1990 or by Bureau of Indian Standards Number 1446 of 1985. extremely flammable liquids: chemicals which have flash point lower than or equal to 230C and boiling point less than 350C very highly flammable liquids: chemicals which

have a flash point lower than or equal to 230C and initial boiling point higher than 350C. highly flammable liquids: chemicals which have a flash point lower than or equal to 600C but higher than 230C. flammable liquids: chemicals which have a flash point higher than 600C but lower than 900 C. Explosives: explosives means 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. 16 Sr.N0. 1. 2. 3. 4. 5. 6. 7. 8

9. THE GAZETTE OF INDIA : EXTRAORDINARY LIST OF HAZARDOUS CHEMICALS

Acetaldehyde Acetic acid Acetic anhydride Acetone Acetone cyanohydrin Acetone thiosemicarbazide Acetonitrile [PART 11 SEC.3(i)] Acetylene tetrachloride 11—vUZ 3(ii)] 17 IO. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49

50. Acrolein Acrylamide Acrylonitrile Adiponitrile Aldicarb Aldrin Allyl alcohol Allyl amine Allyl chloride Aluminium (powder) Aluminium azide Aluminium borohydride Aluminium chloride Aluminium fluoride Aluminium phosphide Amino diphenyl Amino pyridine Aminophenol-2 Aminopterin Amiton Amiton dialate Ammonia Ammonium Ammonium Ammonium Anabasine Aniline Aniline 2, 4, dichloro platinate nitrate nitrite picrate 6-Trimethyl Anthraquinone Antimony pentafluoride Antimycin A ANTU Arsenic pentoxide Arsenic trioxide Arsenous trichloride Arsine Asphalt Azinphos-ethyl Azinphos methyl Bacitracin 51.52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90

91. Barium azide Barium nitrate Barium nitride Benzal chloride Benzenamine.3-Trifluoromethyl Benzene Benzene sulfonyl chloride Benzene. 1-(chloromethyl)-4 Nitro Benzene arsenic acid Benzidine Benzidine salts Benzimidazole, 4. 5-Dichloro-2 (Trifluoromethyl) Benzoquinone-P Benzotrichloride Benzoyl chloride Benzoyl peroxide Benzyl chloride Beryllium (powder) Bicyclo (2, 2, 1) Heptane-2-carbonitrile Biphenyl Bis (2-chloroethyl) sulphide Bis (Chloromethyl) Ketone Bis (Tert-butyl peroxy) cyclohexane Bis (Terbutylperoxy) butane Bis Bis (Chloromethyl) Ether Bismuth and compounds Bisphenol-A Bitoscanate Boron Powder Boron trichloride Boron trifluoride Boron trifluoride comp. With methylether, Bromine Bromine pentafluoride Bromo chloro methane Bromodialone Butadiene Butane Butanone O Butyl amine tert 18 9' Butyl glycidal ether 93. Butyl isovalerate 94. Butyl peroxy maleate tert 95. Butyl vinyl ether 96. Butyl-n-mercaptop 97. C. I. Basic green 98. Cadmium oxide 99. Cadmium stearate 100. Calcium arsenate Calcium carbide 01. Calcium cyanide Camphechlor (Toxaphend) 103

104. Cantharidin 105. Captan 106. Carbachol chloride 107. Carbaryl 108. Carbofuran (Furadan) 109. Carbon tetrachloride Carbon disulphide III. Carbon monoxide 112. Carbophenothion 113. Carvone 114. Cellulose nitrate 115. Chloroacetic acid Chlordane 116. Chlorofenvinphos 118. Chlorinated benzene 119. Chlorine 120. Chlorine oxide 121. Chlorine trifluoride 122 Chlormephos 123. Chlormequat chloride 124. Chlormacetal chloride 125. Chloroacetaldehyde 126. Chloroaniline-2 127. Chloroaniline-4 128. Chlorobenzene 129. Chloromethyl chloroformate Chloroform 130

131. Chloroformyl morpholine 132. Chloromethane THE GAZETTE OF INDIA : EXTRAORDINARY [PART 11 133. 134. 135. 136. 137. 138. 139. 140. 141. 142 143. 144. 146. 147. 148. 149. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172

173. Chloromethyl methylether Chloronitrobenzene Chlorophacinone Chlorosulphonic acid Chlorothiophos Chloroxuron Chroic acid Chroic chloride Chrocin powder Cobalt carbonyl Cobalt Nitrihethyldiene compound Cobalt (powder) Colchicine Copper and compounds Copperoxide chloride Coutnaphos Coutuatertralyt Critidine Crotenaldehyde Crotonaldehyde Cillnene Cyanogen bromide Cyanogen iodide Cyanophos Cyanothioate Cyanuric fluoride Cyclohexylaniline Cyclohexane Cyclohexanone Cycloheximide Cyclopentadiene Cyclopentane Cyclotetramethylenetetraamine Cyclotriethylenetrinitranine Cypenethrin DDT Decaborane (Demeton Denwton S-Methyl Di-n-propyl peroxydicarbonate (Conc - SEC. 3(ii)] 80%) 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 3(ii)] Dialifos

Diazodinitrophenol Dibenzyl peroxydicarbonate (Conc > 90%) Diborane Dichloroacetylene Dichlorobenzalkonium chloride Dichloroethyl ether Dichloromethyl phenylsilane Dichlorophenol-2,6 Dichlorophenol-2,4 Dichlorophenoxy acetic acid Dichloropropane-2,2 Dichlorosalicylic acid-3,5 (DDVP) Dicrotophos Dieldrin Diepoxy butane Diethyl carbamazine citrate Diethyl chlorophosphate Diethyl ethanolamine Diethyl peroxydicarbonate (Conc Diethyl phenylene diamine Diethylaniline Diethylene glycol Diethylene glycol dinitrate Diethylene trimine Diethyleneglycol butyl ether Diglycidyl ether Digitoxin Dihydroperoxypropane (Conc > Diisobutyl peroxide Ditnetox Diinethoate Dimethyl dichlorosilane Diinethyl hydrazine Dimethyl nitrosoamine Dimethyl P phenylene diamine = 30%) Dimethyl phosphoramidic cyanidic acid (TABUM) Dimethyl phosphorochloridothioate Dimethyl sulfolane (DMS) Dimethyl sulphide 215. Dimethylamine 216. Dimethylaniline Dimethylcarbonyl chloride 217

218. Dimetilan Dinitro O-cresol 219

220. Dinitrophenol Dinitrotoluene Dinoseb Dinoterb 223 224. Dioxane-p Dioxathion Dioxine N Diphacinone 297 Diphosphorallilide octatnethyl Diphenyl methane di-isocyanate (MDI) Dipropylene Glycol Butyl ether 230. Dipropylene glycolmethylether 231. Disec-butyl peroxydicarbonate (Conc > 80%) 232 Disu Foton 233. Dithiazmine iodide 234

235. Dithiobiurate 236. Endosulfan 237. Endothion 238. Endrin 239. Epichlorohydrine 240. EPN 241. Ergocalcitol 242 Ergotamine tartarate 243. Ethanesulfonyl chloride, 2 chloro 244. Ethanol 1-2 dichloroacetate Eth ion 245

246. Ethoprophos Ethyl acetate 247

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 20 Ethyl mercuric phosphate 236

257. Ethyl methacrylate Ethyl nitrate 258, Ethyl thiocyanate 259, Ethylamine 260. Ethylene 261. Ethylene chlorohydrine 262, Ethylene dibromide 263. Ethylene diamine 265. 266, 268. 269. 270. 271. 272, 273. 274. 275. 276. 277, 278. 279. 280. 281, 282. 283. 284, 285. 286. 287, 288. 289. 290. 291. 292. 293. 294. 295

296. GAZETIE OF INDIA : EXTRAORDINARY [PART II—SEC. 3(ii)] Ethylene diamine hydrochloride Ethylene flourohydrine Ethylene glycol Ethylene glycol dinitrate Ethylene oxide Ethylenimine Ethylene dichloride Femamiphos Femithrothion Fensulphothion Fluometil Fluorine Fluoro 2-hydroxy butyric acid amid salt ester Fluoroacetamide Fluoroacetic acid amide salts and esters Fluoroacetylchloride Fluorobutyric acid amide salt esters Fluorocrotonic acid amides salts esters Fluorouracil Fonofos Formaldehyde Formetanate hydrochloride Formic acid Formoparanate Formothion Fosthiotan Fuberidazole Furan Gallium Trichloride Glyconitrile (Hydroxyacetonitrile) Guany 1-4-nitrosam inoguinyl- i -tetrazene Heptachlor Hexa methyl. terta-oxyacyclononate (Conc 75%) 297. Hexachlorobenzene 298. Hexachlorocyclohexan (Lindane) 299. Hexachlorocyclopentadiene 300. Hexachlorodibenzo-p-dioxin 301. Hexachloronaphthalene 302. Hexafluoropropanone sesquihydrate 303. Hexamethyl phosphoroamide 304. Hexamethylene diamine N N dibutyl 305. Hexane 306. Hexanitrostilbene 2 2 4 4 6 6 307. Hexene 308. Hydrogen selenide 309. Hydrogen sulphide 310. Hydrazine 311. Hydrazine nitrate 312, Hydrochloric acid (Gas) 313. Hydrogen 314, Hydrogen bromide 315. Hydrogen cyanide 316. Hydrogen fluoride 317, Hydrogen peroxide 318. Hydroquinone 319. Indene 320. Indium powder 321. Indomethacin 322. Iodine 323. Iridium tetrachloride 324. Ironpentacarbonyl 325. Iso benzan 326. Isoamyl alcohol 327. Isobutyl alcohol 328, Isobutyro nitrile 329, Isocyanic acid 3 4-dichlorophenyl ester 330. Isodrin 331. Isofluorophosphate 332 Isophorone diisocyanate 333, Isopropyl alcohol 334 Isopropyl chlorocarbonate 335. Isopropyl formate 336. Isopropyl methyl pyrazolyl dimethyl carbamate 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 3(ii)] Juglone (5-Hydroxy Naphthalene- 1, 4 dione) Ketene Lactonitrile Lead arsenite Lead at high temp (molten) Lead azide Lead styphanate Leptophos Lenisite Liquified petroleum gas Lithium hydride N-Dinitrobenzene Magnesium powder or ribbon Malathion Maleic anhydride Malononitrile Manganese Tricarbonyl cyclopentadiene Mechlor ethamine Mephospholan Mercuric chloride Mercuric oxide Mercury acetate Mercury fulminate Mercury methyl chloride Mesitylene Methacrolein diacetate Methacrylic anhydride Methacrylonitrile Methacryloyl oxyethyl isocyanate Methanidophos Methane Methanesulphonyl fluoride Methidathion Methiocarb Methonyl Methoxy ethanol (2-methyl cellosolve)

Methoxyethyl mercuric acetate Methacryloyl chloride Methyl 2-chloroacrylate Methyl alcohol Methyl amine 21 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418

419. Methyl bromide (Bromomethane) Methyl chloride Methyl chloroform Methyl chloroformate Methyl cyclohexene Methyl disulphide Methyl ethyl ketone peroxide (Conc.60%) Methyl formate Methyl hydrazine Methyl isobutyl ketone Methyl isocyanate Methyl isothiocyanate Methyl mercuric dicyanamide Methyl Mercaptan Methyl Methacrylate Methyl phencapton Methyl phosphonic dichloride Methyl thiocyanate Methyl trichlorosilane Methyl vinyl ketone Methylene bis (2-chloroaniline) Methylene chloride Methylenebis-4, 4(2-chloroaniline) Metolcarb Mevinphos Mezacarbate Mitomycin C Molybdenum powder Monocrotophos Morpholine Muscinol Mustard gas N-Butyl acetate N-Butyl alcohol N-Hexane N-Methyl-N, 2, 4, 6-Tetranitroaniline Naphtha Naphtha solvent Naphthalene Naphthyl amine Nickel carbonyl/nickel tetracarbonyl 22 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 441. 442 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458

459. GAZETTE OF INDIA : EXTRAORDINARY [PART 11 —SEC. Nickel powder Nicotine Nicotine sulphate Nitric acid Nitric oxide Nitrobenzene Nitrocellulose (dry) Nitrobenzene Nitrocyclohexane Nitrogen Nitrogen dioxide Nitrogen oxide Nitrogen trifluoride Nitroglycerine Nitropropane- I Nitropropane-2 Nitroso dimethyl amine Nonane Norbormide O-Cresol O-Nitro Toluene O-Toluidine O-Xylene O/P Nitroaniline Oleum 00 Diethyl S ethyl sulph. methyl phosph. 00 Diethyl S propylthio methyl phosphodithioate 00 Diethyl S ethylsulphinylmethylphosphorothioate 00 Diethyl S ethylsulphonylmethylphosphorothioate 00 Diethyl S ethylthiomethylphosphorothioate Organo rhodium complex Orotic acid Osmium tetroxide Oxabain Oxamyl Oxetane, 3, 3-bis(chloromethyl) Oxidiphenoxarsine Oxy disulfoton Oxygen (liquid) Oxygen difluoride 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496

497. Ozone P-nitrophenol Paraffin Paraoxon (Diethyl 4 Nitrophenyl phosphate) Paraquat Paraquat methosulphate Parathion Parathion methyl Paris green Penta borane Penta chloro ethane Penta chlorophenol Pentabromophenol Pentachloro naphthalene Pentadecyl-amine Pentaerythritol tetranitrate Pentane Pentanone Perchloric acid Perchloroethylene Peroxyacetic acid Phenol Phenol, 2, 2-thiobis (4, 6-Dichloro) Phenol, 2, 2-thiobis (4 chloro 6 methyl phenol) Phenol, I-methyl ethyl)-methylcarbamate Phenyl hydrazine hydrochloride Phenyl mercury acetate Phenyl silatrane Phenyl thiourea Phenylene P-diamine Phorate Phosazetin Phosfolan Phosgene Phosmet Phosphamidon Phosphine Phosphoric acid 498. Phosphoric acid dimethyl (4-methyl thio) phenyl 499. Phosphorothioic acid dimethyl S(2-Bis) Ester 500. Phosphorothioic acid methyl (ester) 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 3(ii)] Phosphorothioic acid, 00 Dimethyl S-(2-methyl) Phosphorothioic, methyl-ethyl ester Phosphorous Phosphorous oxychloride Phosphorous pentoxide Phosphorous trichloride Phosphorous penta chloride Phthalic anhydride Phylloquinone Physostigmine Physostigmine salicylate (I Picric acid (2,4,6-trinitrophenol) Picrotoxin Piperidine Piprotal Pirinifos-ethyl Platinous chloride Platimm tetrachloride Potassium arsenite Potassium chlorate Potassium cyanide Potassium hydroxide Potassium nitride Potassium nitrite Potassium peroxide Potassium silver cyanide Powdered metals and mixtures Promecarb Promurit Propanesultone Propargyl alcohol Propargyl bromide Propen-2-chloro- I ,3-diethyl diacetate Propiolactone beta Propionitrile Propionitrile, 3-chloro Propiophenone, 4-amino Propyl chloroformate Propylene dichloride Propylene glycol, allylether Propylene imine Propylene oxide Prothoate 23 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574 575, 576. 577. 578. 579. 580 581. 583. 584. 585 586 Pyrazoxon Pyrene Pyridine Pyridine, 2-methyl-3-vinyl Pyridine,4-nitro- I -oxide Pyridine,4-nitro- I -oxide Pyriminil Quinalphos Quinone Rhodium trichloride Salcomine Sarin Selenious acid Selenium Hexafluoride Selenium oxychloride Semicarbazide hydrochloride Silane (4-amino butyl) diethoxy-meth Sodium Sodium anthra-quinone-I-sulphonate Sodium arsenate Sodium arsenite Sodium azide Sodium cacodylate Sodium chlorate Sodium cyanide Sodium fluoro-acetate Sodium hydroxide Sodium pentachloro-phenate Sodium picramate Sodium selenate Sodium selenite Sodium sulphide Sodium tellorite Stannane acetoxy triphenyl Stibine (Antimony

hydride) Strychnine Strychnine sulphate Styphime acid (2,4,6-trinitroresorcinol) Styrene Sulphotec 3-chloropropyl octyl Sulphur dichloride 24 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 602 623. 624. 625. 626. 627. 628

629. THE GAZETTE OF INDIA : EXTRAORDINARY [PART 11 —SEC. 3(ii)] Sulphur dioxide Sulphur monochloride Sulphur tetrafluoride Sulphur trioxide Sulphuric acid Tellurium (Powder) Tellurium hexafluoride TEPP (Tetraethyl pyrophosphate) Terbufos Tert-Butyl alcohol Tert-Butyl peroxy carbonate Tert-Butyl peroxy isopropyl Tert-Butyl peroxyacetate (Conc>— -70%) Tert-Butyl peroxy pivalate (Conc> Tert-Butyl peroxy isobutyrate Terta hydrofuran Tetra methyl lead Tetra nitromethane Tetra-chlorodibenzo-p-d ioxin, I ,2,3,7,8,(TCDD) Tetraethyl lead Tetrafluoroethylene Tetramethylene disulphotetramine Thallium oxide Thallium carbonate Thallium sulphate Thallous chloride Thallous malonate Thallous sulphate Thiocarbamide Thiocyanic acid, 2-(Benzothiazolythio) methyl Thiofamos Thiometon Thionazin Thionyl chloride Thiophenol Thiosemicarbazide Thiourea (2-chloro-phenyl) Thiourea (2-methyl phenyl) Titipate (2,4-dimethyl-1,3-di-thiolane) Titanium powder Titanium tetra-chloride Toluene Toluene 2,4-di Isocyanate 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671

672. Toluene 2,6-di isocyanate Trans- 1,4-di chloro-butene Tri nitro anisole Tri (Cyclohexyl) methylstannyl 1,2,4 triazole Tri (Cyclohexyl) stannyl- I H- I Triaminotrinitrobenzene Triamphos Triazophos Tribromophenol Trichloro naphthalene Trichloro chloromethyl silane Trichloroacetyl chloride Trichlorodichlorophenylsilane Trichloroethyl silane Trichloroethylene Trichloromethane sulphenyl chloride Trichloronate Trichlorophenol 2, 3, 6 Trichlorophenol 2, 4, 5 Trichlorophenyl silane Trichlorophon Triethoxy silane Triethylamine Triethylene melamine Trimethyl chlorosilane Trimethyl propane phosphite Trimethyl tin chloride Trinitro aniline Trinitro benzene Trinitro benzoic acid Trinitro phenetole Trinitro-m-cresol Trinitrotoluene Triphenyl phosphite Triphenyl tin chloride Tris (2-chloroethyl) amine Turpentine Uranium and its compounds Valinomycin Vanadium pentoxide Vinyl acetate monomer Vinyl bromide Vinyl chloride r 11—u 3(ii)] 673.674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 25 Vinyl cyclohexane dioxide Vinyl fluoride Vinyl norbornene Vinyl toluene Vinylidene chloride Warfarin Warfarin Sodium Xylene dichloride Xylidine Zinc dichloropentanitrite Zinc phosphide Zirconium & compounds" IO. In Schedule 2 of the said rules,- Under the sub-heading " Threshold quantities (tonnes)" , - (a) for the existing entries, the following shall be substituted, namely:- For application of rules 4,5,7 to 9 and 13 to 15"; (b) for existing entries, the following shall be substituted, namely:- "For application of rules 10 to 12"; for serial number 7 and the entries relating thereto the following serial number and entries shall be substituted, namely:- Extremely flammable liquids as defined in Schedule 1, paragraph (b) (ii) 5000 (iii) after serial number 27 and the entries relating following serial numbers and entries shall be inserted, namely:- 50,000"; thereto, the 26 THE GAZETTE OF INDIA : EXTRAORDINARY "28. Very Highly flammable liquids as defined in Schedule 1, paragraph (b)(iii) 29. Highly Flammable liquids as defined in Schedule 1, paragraph (b)(iv) 30. Flammable liquids as defined in Schedule-I, paragraph(b)(v)" I l. In schedule 3 of the said rules,- 7 ,000 10,000 15,000 [PART II—SEC. 7,000 10,000 in PART-I, in Group4 relating to Explosive substances against serial numbers 150,160, 163, 164, and 165, in column 3 , for the existing entries, the figures and letter "100 kg" shall respectively be substituted. for Part-II and the entries relating thereto the following shall be substituted, namely:- PART -II Classes of substances as defined in PART-I, Schedule-I and not specifically named in PART-I of this Schedule. 1 2 Group 5 - Flammable substances 1 2. 3. 4. 5

6. Flammable Gases Extremely flammable liquids Very Highly flammable liquids Highly Flammable liquids which remains liquid under pressure Highly Flammable liquids Flammable liquids 3 15T 1000T 1500T 25T 2500T 5000T 4 200T 5000T 10000T 200T 20000T 50000T" 12.In Schedule 4 of the said rules, in serial number 4 after the words "production, processing" the word "use" shall be inserted. 3(ii)] In Schedule 5 of the said rules, - 13. against serial number 3, in column 2, for the words "State Pollution the words "State Pollution Control Board or Control Board" Committee" shall be substituted; against serial number 5 , in column 3, for the words "inside a portn, the words "inside a port {covered under the Dock Workers (Safety, Health and Welfare) Act, 1986}" shall be substituted; against serial number 6, in column 3, the words "and pipelines including inter-state pipelines" shall be omitted. against

serial number 7, in column 3, for the existing entries, the following entries shall be substituted, namely:- "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 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; against serial number 8, in column 3, after the brackets, letter and words, "(b) The Calcium Carbide Rules, 1987," the following shall be inserted, namely:- "and in respect of Industrial installation and isolated storages dealing with hazardous chemicals and pipelines including inter- state pipelines regarding:- (a) Notification of major accidents 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; 27 GAZETTE OF INDIA : EXTRAORDINARY 28 [PART II SEC. 3(ii)] (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: against serial number 10, in column 2, for the words brackets and letters "Directorate of Explosive Safety (DES)", the words, brackets and letters "Centre for Environment and Explosive Safety (CEES)" shall be substituted. [F. No. 17-4/90-HSNDI Dr. V. RAJAGOPALAN, Jt. secy. Note: The principal rules were published in the Gazette of India vide number S.O. 966(E), dated 27.11.89 and subsequently amended vide:- (i) GSR 584 dated 9.6.90, (ii) S.O. 115(E) dated 5.2.20 and (iii) S.O. 2882 dated 3.10.94. Printed by the Manager, Govt. of India Press, Ring Road, Mayapur, New Delhi-110064 and Published by the Controller of Publications, Delhi-110054.

