Hydrogen chloride msds pdf

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MSDS Name: Hydrochloric acid 32-38% solution Catalog Numbers: A142-212, A142P-19, A142P-20, A144-212, A144-212LC, A144-500, A144-500LB, A144-500LC, A144-612GAL, A144C-212, A144C-212EA, A144P-19, A144P-20, A144S-212, A144S-212EA, A144S-500, A144SI-212, A466-1, A466-2, A466-250, A466-2LC, A466-500, A481-212, A481-212LC, A508-212, A508-212LC, A508-4, A508-500, A508SK-212, AS481-212LC, NC9373124, S71942SC, S71942SCND, S71943, S71943ND, S80038, SA49 Synonyms: Muriatic acid; Chlorohydric acid; Hydrogen chloride in aqueous solution. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300 For International CHEMTREC assistance, call: 703-527-3887 EMERGENCY OVERVIEW Appearance: clear, colorless to pale yellow liquid. Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. May be fatal if inhaled or swallowed. Repeated or prolonged exposure may cause erosion of exposed teeth. Corrosive to metal. Target Organs: Respiratory system, gastrointestinal system, teeth, eyes, skin. Potential Health Effects Eye: May cause irreversible eye injury. Vapor or mist may cause irritation and severe burns. Contact with liquid is corrosive to the eyes and causes severe burns. Skin: Contact with liquid is corrosive and causes severe burns and ulceration. The severity of injury depends on the concentration of the solution and the duration of exposure. Ingestion: Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. Inhalation: May be fatal if inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract. Causes corrosive action on the mucous membranes. Chronic: Prolonged or repeated skin contact may cause dermatitis. Repeated exposure may cause erosion of teeth. Repeated exposure to low concentrations of HCl vapor or mist may cause bleeding of nose and gums. Chronic bronchitis and gastritis have also been reported. Section 4 - First Aid Measures RTECS#: CAS# 7732-18-5: ZC0110000 CAS# 7647-01-0: MW4025000; MW4031000 LD50/LC50: CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;. CAS# 7647-01-0: Inhalation, mouse: LC50 = 1108 ppm/1H; Inhalation, mouse: LC50 = 20487 mg/m3/5M; Inhalation, mouse: LC50 = 3940 mg/m3/30M; Inhalation, mouse: LC50 = 8300 mg/m3/30M; Inhalation, rat: LC50 = 3124 ppm/1H; Inhalation, rat: LC50 = 60938 mg/m3/5M; Inhalation, rat: LC50 = 7004 mg/m3/30M; Inhalation, rat: LC50 = 45000 mg/m3/5M; Inhalation, rat: LC50 = 8300 mg/m3/30M; Oral, rabbit: LD50 = 900 mg/kg;. Inhalation LC50 (aerosol) rat: 8300mg/m3/30M; Oral LDLo Man: 2857 ug/kg; Oral LDLo Woman: 420 uL/kg; Inhalation LCLo Human: 1300 ppm/30M. Carcinogenicity: CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7647-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No data available. Teratogenicity: Female rats were exposed to 450 mg/m3 of HCl for 1 hour either prior to mating or on day 9 of pregnancy. Developmental effects were observed in the offspring. However, this exposure caused toxic effects, including mortality, in the mothers. Reproductive Effects: No information available. Mutagenicity: See actual entry in RTECS for complete information. Neurotoxicity: No information available. Other Studies: Section 12 - Ecological Information US FEDERAL TSCA CAS# 7732-18-5 is listed on the TSCA inventory. CAS# 7647-01-0 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule. Section 12b None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs CAS# 7647-01-0: 5000 lb final RQ; 2270 kg final RQ SARA Section 302 Extremely Hazardous Substances CAS# 7647-01-0: 500 lb TPQ (gas only) SARA Codes CAS # 7647-01-0: immediate. Section 313 This material contains Hydrogen chloride (CAS# 7647-01-0, 32-38%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. Clean Air Act: CAS# 7647-01-0 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. Clean Water Act: CAS# 7647-01-0 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA: CAS# 7647-01-0 is considered highly hazardous by OSHA. STATE CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ. CAS# 7647-01-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts. California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: C Risk Phrases: R 34 Causes burns. R 37 Irritating to respiratory system. Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). WGK (Water Danger/Protection) CAS# 7732-18-5: No information available. CAS# 7647-01-0: 1 Canada - DSL/NDSL CAS# 7732-18-5 is listed on Canada's DSL List. CAS# 7647-01-0 is listed on Canada's DSL List. Canada - WHMIS This product has a WHMIS classification of E, D1A. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List CAS# 7647-01-0 is listed on the Canadian Ingredient Disclosure List. Section 16 - Additional Information

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