

MATERIAL SAFETY DATA SHEET I SECTION V

HH0090 HH0093 HH0094 HH0095 HH HH0140 HH0150 HH MSDS No .: HH0158 HH0160 HH Effective Date: January 10, 200

SECTION I NAME 24 HOUR EMERGENCY ASSISTAN Product Hydrochloric Acid Solution CHEMTREC 0 Health Chemical 800-424-9300 Hydrochloric Acid, Water Solution 3. 0 Synonyms Day 585-226-6177 Fire Formula Mixture. See Section II. Reactivity NFPA HMIS * Unit Size up to 3.785 Lt. HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVE C.A.S. No. Mixture. See Section II. 2 0 3 4 SECTION II **INGREDIENTS OF MIXTURES** % **TLV Units** Principal Component(s) Hydrochloric Acid: (CAS No. 7647-01-0) 1.51 - 10% See Section V. 90 - 98.49% Water: (CAS No. 7732-18-5) None established WARNING! CORROSIVE! HARMFUL IF SWALLOWED. IRRITANT TO EYES AND MUCOUS MEMBRANES. PHYSICAL DATA SECTION III Specific Gravity $(H_2O = 1)$ Melting Point (°F) Freezes approx. 0°C (32°F) Approx. 1.0 Percent Volatile Boiling Point (°F) Approx. 100°C (212°F) 90 - 98.49% by Volume (%) vaporation Rate Vapor Pressure (mm Hg) 14 (water) Slightly less than 1. (Water =1) Vapor Density (Air=1) 0.7 (water) Solubility in Water Complete. Appearance & Odor Clear, colorless liquid; may have acrid odor. SECTION IV FIRE AND EXPLOSION HAZARD DATA Flash Point Lower Upper Flammable Limits in Air (Method Used % by Volume Non-flammable. N/A Extinguisher Use any media suitable for extinguishing supporting fire. Media SPECIAL FIREFIGHTING PROCEDURES In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

221 Rochester Street

(585) 226-6177

Avon, New York 14414-9409

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 157)

UNUSUAL FIRE AND **EXPLOSION HAZARDS**

> Non-combustible, but contact with common metals produce hydrogen which may form explosive mixtures with air.

Threshold Limited Value Hydrogen chloride as gas or fume: TWA Celling Limits. TWA: 5 ppm; 7 mg/m ² (AR), (ACGIH 2001). Effects of Overexposure Iritant to eyes, skin and mucous membranes. May cause burns. Vapors may cause coughing, choking, infammation of the respiratory May cause burns to mouth, throat, esophagus and gastrointestinal tra Exercise appropriate procedures to minimize potential hazards. Target organs: Respiratory system, skin, eyes, lungs. Emergency and First Ail Procedures NetESTION: Call physician or Poison Control Center immediately. I vorniting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscluus person. EYES: Oheck for and remove contaminated clothing. Twist thoroughly with mid soap and water. If instation occurs, medical attention. IMHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breat difficut, give oxygen. Get medical attention. SECTION VI REACTIVITY DATA Stability Excessive temperatures or heat. Incompatibility (Materials to Avoid) Will react with most metals, alkalies, strong oxidants. Hazardous Decomposition Products Hydrogen chloride gas may be evolved by heating. Hydrogen evolved by reaction with metals. Hazardous Polymerization Conditions to Avoid May occur Not applicable. SECTION VI SPILL OR LEAK PROCEDURES Stable Is released or spilled Carefully neutralize with sodium bicarbonate and flush to with copicus amounts of water. Maste Disposal Method Repertage resent and thore needed in							RD DATA			10090
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The information make independent determinations of suitability and completeness of information from all sources to assure pr health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

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D.O.T. Hydrochloric acid, 8, UN1789, PG II, Ltd Qty ≤1 Lt.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20