

HUDSON

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 01/07/2003

MSDS No: H180-4LITER

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Hydrochloric Acid Solution, 4 Liter container**PRODUCT CODE:** H180-4LITER**MANUFACTURER**

Hudson Supply Company

4500 Lee Rd

Cleveland, OH 44128-2959

Customer Service: (800) 486-0480**24 HR. EMERGENCY TELEPHONE NUMBERS****CHEMTREC (U.S.):** (800) 424-9300**Emergency Phone:** (800) 424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Water	95 - 98	7732-16-5
Hydrochloric Acid	2 - 5	7647-01-0

COMPONENTS :**EXPOSURE LIMITS**

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Supplier</u>
Water			
Hydrochloric Acid	7 mg/m ³	7.5 mg/m ³	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: This chemical is relatively non-hazardous. It is not expected to present significant health risk. Although unlikely, if ingested in high concentrations may be toxic.

POTENTIAL HEALTH EFFECTS

EYES: Harmful to eyes. Direct contact with this material causes eye irritation. symptoms may include stinging, tearing, redness and swelling.

SKIN: May cause significant irritation to the skin.

INGESTION: Dangerous

INHALATION: Irritant

ACUTE EFFECTS: Irritation of nose, eyes, skin and mouth. Severe burns and ulcerations at high concentrations.

SUBCHRONIC/CHRONIC TOXICITY

CHRONIC: Severe burns to toxic.

CARCINOGENICITY: Not Listed by NTP

Not listed by IARC

Not listed by OSHA

MEDICAL CONDITIONS AGGRAVATED: None Expected.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for two to three minutes. Remove any contact lenses and continue flushing for 15 minutes. Get medical attention.

SKIN: Wash thoroughly with soap and water.

INGESTION: Induce vomiting. dilute with water. Never give anything by mouth to anyone who is unconscious or convulsing. Get medical attention.

INHALATION: Remove individual to fresh air. Keep person calm. If breathing is difficult, administer oxygen and get proper medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: N/A to N/A

AUTOIGNITION TEMPERATURE: Not Applicable

EXTINGUISHING MEDIA: Any media for the surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: None known.

FIRE FIGHTING EQUIPMENT: Fire fighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Cover with dry earth, dry sand, or non-combustible material followed by plastic sheet to minimize spreading.

LARGE SPILL: Dike far ahead of the spill. Cover with dry earth, sand, or non-combustible material.

7. HANDLING AND STORAGE

HANDLING: Wear safety glasses, goggles, or face shield, safety gloves, personal protective clothing, or respirator as required in section 8 of this MSDS.

STORAGE: Store in unopened containers under cool and dry conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient local exhaust and general ventilation to maintain exposure below PEL(s), especially for spraying operations which produce mists.

PERSONAL PROTECTION

EYES AND FACE: Wear safety glasses with side shields or goggles when handling this material.

SKIN: To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

RESPIRATORY: Use NIOSH/MSHA approved air supplied respirator in absence of proper environmental control.

WORK HYGIENIC PRACTICES: Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Pungent, irritating odor.

APPEARANCE: Clear

COLOR: Colorless

pH: Not Applicable

PERCENT VOLATILE: Not Applicable

VAPOR PRESSURE: 40.5 ATM @ 20C

VAPOR DENSITY: 1.30 (Air=1)

BOILING POINT: (-120.89°F)

FREEZING POINT: Not Applicable

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Partially Soluble

EVAPORATION RATE: Not Applicable

DENSITY: Not Applicable

SPECIFIC GRAVITY: Not Applicable

VISCOSITY: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Incompatibilities

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION: Hydrogen gas.

INCOMPATIBLE MATERIALS: Most metals, forming hydrogen gases. May be explosive when mixed with potassium permanganate, sodium

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

IARC: Not listed by IARC

NTP: Not Listed by NTP

OSHA: Not listed by OSHA

MUTAGENICITY: Not Listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Applicable

ECOTOXICOLOGICAL INFORMATION: Not Applicable

CHEMICAL FATE INFORMATION: Not Applicable

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: In compliance with Federal, State and local regulations for landfills.

FOR LARGE SPILLS: Contain material and call local authorities for emergency assistance. In consultation with the appropriate authorities, determine the disposal method or contact the manufacturer.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquid N.O.S

TECHNICAL NAME: Hydrochloric Acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 3264

PACKING GROUP: III

BULK FREIGHT CLASS: 202

LABEL: Corrosive

COMMENTS: Not Applicable

15. REGULATORY INFORMATION

GENERAL COMMENTS: EPA Regulation: listed

RCRA hazardous waste number:

RCRA hazardous waste classification (40 CFR 261.??): classified.

CERCLA hazardous substance: listed

CERCLA Reportable Quantity (RQ): listed

SARA 311/312 Codes: listed

SARA Toxic Chemical (40 CFR 372.65): listed

SARA EHS: listed

Threshold Planning Quantity (TPQ): listed

OSHA Regulations: listed

OSHA Specifically Regulated Substance (29 CFR 1910.1000): listed

State Regulations: STCC listed.

DOT (40 CFR 172.101 Append.): listed

ACGIH Threshold Limit Value: listed

MAK: listed

TSCA: listed

ANNEX I: listed

16. OTHER INFORMATION**APPROVED BY:** David C. Dillon **TITLE:** Systems Administrator**APPROVAL DATE:** 01/07/2003**REVISION SUMMARY** New MSDS**NFPA CODES****FIRE:** 0 **HEALTH:** 3 **REACTIVITY:** 0

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