

MATERIAL SAFETY DATA SHEET

Section I: IDENTIFICATION

Product Name: Hydrochloric Acid, 1 to 2% V/V
Date Prepared: 03/25/08
Item Number(s): 400650, 400479, 400654
Emergency Phone, Infotrac: 800-535-5053

Section II: COMPOSITION

<i>Hazardous Component(s):</i>	<i>CAS Number</i>	<i>OHSA PEL, ACGIH TLV/STEL (PPM)</i>		<i>NFPA</i>
Hydrochloric Acid 1-2% (Corrosive Liquid)	7647-01-0	5	5/50	<i>Health</i> 3 <i>Flammability</i> 0 <i>Reactivity</i> 0

Section III: PHYSICAL DATA

Boiling Point: ~ 212°F
Vapor Pressure mm Hg/20 °C: 50-60
Vapor Density (Air 1:1): NE
Solubility in H₂O: Complete
Specific Gravity (H₂O = 1): ~1
Percent Volatile by Vol: NA
Evaporation Rate (ether = 1): >1
Appearance & Odor: Clear liquid, slight chlorine odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: Non-Flammable
Flammable Limits: LEL: NA UEL: NA
Extinguishing Media: Water spray, dry chemical, CO₂ and foam
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: Hydrogen and chloride gas

Section V: REACTIVITY

Stability: Stable
Material to Avoid: Strong bases
Hazardous Decomposition or Byproducts: Oxides of chlorine
Hazardous Polymerization: Does not occur
Conditions to Avoid: Strong bases

Section VI: HEALTH HAZARDS

Routes of Entry: Inhalation, Skin and Ingestion
Target Organs: Respiratory system
Acute/Chronic: Note: Product as offered is not expected to cause health hazard when following good laboratory practices. Eye protection is required.
Carcinogenicity: Not classified as a human carcinogen.
Signs/Symptoms of Exposure: Eye and skin irritation.

MATERIAL SAFETY DATA SHEET

Hydrochloric Acid 2%, 2 OF 2

Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persist.

Ingestion: Rinse mouth with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Wear full protective clothing especially NIOSH approved respirator. Isolate the spill area with sand, or other absorbent material. Neutralize with sodium carbonate. Place all contaminated material in a closed container for proper disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Store in acid safety cabinet. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: NIOSH approved respirator required.

Ventilation: Exhaust hood system for corrosives

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. HealthLink shall not be held liable for any damage resulting from handling or contact with this product.

*Change due to customer request. No substantial changes since prepared date.

HealthLink, Inc
3611 St. Johns Bluff Road South, Suite 1, Jacksonville, FL 32224
904-996-7758