

MATERIAL SAFETY DATA SHEET

SECTION I - SUPPLIER INFORMATION

Common Name: **CW80**
Chemical Name: Hydrochloric Acid
Formula: HCl
Distributed by: **Chaffee-Ward Corporation**
PO Box 237
10838 Bodine Road
Clarence, NY 14031
Phone: (716) 759-8228
Manufactured by: **Shore Corporation**
2917 Spruce Way
Pittsburgh, PA 15201
Manufacturer Phone: (412) 471-3330
Emergency Phone: Chem-Tel 1-800-255-3924 (24 Hours)
Date Prepared: July 17, 2002
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SECTION II – HAZARDOUS INGREDIENT INFORMATION

CFR 29 Part 1910.1000 Table Z-1 (Feb. 28, 2006 Issue)

Ingredient	CAS Number	PEL-OSHA (PPM)	TWA-OSHA (mg/m ³)	TLV-ACGIH (PPM)	STEL-ACGIH (PPM)
Hydrochloric Acid	7647-01-0	5	7.5	5	10

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 384°F
Specific Gravity: 1.2
Melting Point: N/A °F
pH: <1
Vapor Pressure (mm Hg): 85
Vapor Density (Air=1): 1.3
Evaporation Rate (Butyl Acetate=1): 1
Solubility in Water: 100%
Appearance and Odor: Colorless, brown or pale yellow, acrid odor

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: none °F
Auto-Ignition Temperature: none °F
LEL: NA %
UEL: NA %
Extinguisher Media: NA

Special Fire Fighting Procedures: Can give off noxious fumes when heated. Use SCBA

Unusual Fire and Explosion Hazards: HCL gas can be driven off of solutions

SECTION V – REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	None Known
Incompatibility (Materials to Avoid):	Alkalis, oxidizers, most metals
Hazardous Decompositions or By Products:	Thermal decomposition may release corrosive hydrogen chloride
Polymerization:	Will Not Occur
Conditions to Avoid:	None Known

SECTION VI – HEALTH HAZARD DATA

Inhalation

Acute: CORROSIVE: 100ppm immediately dangerous to life or health. Inhalation of 5-35ppm may cause choking, coughing and irritation of the throat, ulceration of the nose, throat or larynx, bronchitis, pneumonia, palpitations and headache.

Chronic: Repeated or prolonged exposure may cause erosion and discoloration of exposed teeth, chronic bronchitis and gastritis.

Eye Contact

Acute: CORROSIVE: Contact may cause severe irritation, conjunctivitis, corneal necrosis and burns with impairment or permanent loss of vision, clouding or corrosion of the cornea. Contact with a compressed gas may cause frostbite.

Chronic: Effects are dependent on concentration and duration. See acute exposure.

Skin Contact

Acute: CORROSIVE: Contact may cause severe irritation, inflammation, ulceration, necrosis and chemical burns.

Chronic: Repeated or prolonged contact with vapors or dilute solutions may cause dermatitis. Photosensitization may occur.

Ingestion

Acute: CORROSIVE: May cause burns of the mouth, throat, esophagus and stomach with consequent pain, uneasiness, nausea, salivation, vomiting, diarrhea, chills, shock and intense thirst.

Chronic: No data available.

Medical Conditions Aggravated by Exposure: None Know

Chemical Listed as Carcinogen or Potential Carcinogen: No

National Toxicology Program

I.A.R.C. Monographs: No OSHA: No

ROUTES OF ENTRY/EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get Medical Attention.

Eyes: Rinse eyes with large amounts of cool water for 15-20 minutes lifting upper and lower lids. Rinse with saline solution until the pH is back to normal (30-60 minutes) Get Medical Attention.

Skin: Remove contaminated clothing. Wash affected area with soap and large amounts of water. Use a good skin emollient. If skin is burned, cover with a sterile, dry dressing and Get Medical Attention.

Ingestion: Do not use gastric lavage or emesis. Dilute acid immediately by drinking large amounts of water or milk. Ingested acid must be diluted 100 fold to render it harmless. Get Medical Attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions To Be Taken In Handling And Storage: Store in a cool well-ventilated place, separated from all oxidizing materials.

Other Precautions: Store away from incompatible substances.

Steps To Be Taken In Case Material Is Released Or Spilled: Dike flow of spilled material using soil or sandbags or foamed barriers such as polyurethane or concrete.

Waste Disposal Method: Follow all Local, State and Federal Regulations in your area.

SECTION VIII – OTHER REGULATORY INFORMATION

Section 313 (With Chemicals Listed): This product contains the following the chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372:

Ingredient:	CAS Number	Weight Percent
Hydrochloric Acid	7647-01-0	32-36%

SECTION IX – SPECIAL PROTECTION & CONTROL MEASURES

RESPIRATORY PROTECTION: U.S. Bureau of Mines Respirator; self-contained breathing device, airline or NIOSH approved respirator.

The specific respirator selected must be based on contamination levels in the work place, must be based on specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute of Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

VENTILATION:	Local Exhaust	Mechanical	Special	Other
	xxxxx			

Protective Gloves: Rubber, or acid resistant

Eye Protection: Splash-proof or dust resistant safety goggles and a face shield to prevent contact with this substance.

Other Protective Clothing or Equipment: Appropriate protective (impervious) clothing and equipment to prevent contact with this substance. Eyewashes and drench showers should be in the immediate work area.

Work/Hygiene Practices: Keep off of clothing.

SECTION X – D.O.T. SHIPPING INFORMATION

DOT Shipping Name: Hydrochloric Acid, 8, PG II, UN1789
Label Requirements: CORROSIVE

DOT Hazardous Substance:	CAS Number	Reportable Quantity (RQ)
Hydrochloric Acid	7647-01-0	5000 lbs.

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.