MATERIAL SAFETY DATA SHEET

Product Name : 800   *Date Issued : January 17, 2012*

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: 800   **Chemical Synonym / C# :** c800
Formula : Multi-component mixture   **Chemical Family:** Strong acid

Supplier : Specialty Chemicals Inc. 208 Widgedon Landing Hilton, NY 14468
Information Telephone :   (585)752-2320   **Emergency Telephone :** (607)529-3218

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

			ACGIH TLV (mg/m3)	
Hazardous Ingredient(s)	**CAS #**	**% (w/w)**	**TWA**	**STEL**
Hydrogen Chloride	7647-01-0	< 30.0	–	7.5 ceiling

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 3 : HAZARD IDENTIFICATION

Emergency Overview : Read the entire MSDS for a more thorough evaluation of the hazards. Strong irritating odor. HEALTH HAZARD : DANGER! CAUSES EYE, SKIN, AND RESPIRATORY TRACT BURNS! Liquid contact to eyes and skin will cause burning, strong irritation, and tissue damage. May cause blindness or be fatal with skin contact or ingestion. Inhalation of vapor may cause coughing, choking, and result in damage to mucous membranes and other pulmonary effects.
Potential Health Effects   Acute/ Chronic:
Eye : Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.
Skin : Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.
Ingestion : Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.
Inhalation : Breathing of vapor or mist is possible. Breathing of this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.
Symptoms of Exposure: No data
Target Organ Effects: No data

SECTION 4 : FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Call a physician.
Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion: DO NOT INDUCE VOMITING. Give victim a glass of water. Call physician immediately.

MATERIAL SAFETY DATA SHEET

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point : None   **Method Used:** N/A   **Flammable Limits:**   **LEL =** N/A   **UEL =** N/A
Extinguishing Media: water(flood with water), carbon dioxide, dry chemical, or "alcohol" foam.
Fire Fighting Procedures: Hydrochloric acid solutions do not burn. Use water spray to cool fire-exposed containers of HCl to prevent ruptures. If fighting a fire, wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to section 8 of this MSDS.
Unusual Fire and Explosion Hazards: None expected; however, explosive gasses can be produced by the reaction of hydrochloric acid with metals.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:
Small Spill: Absorb spill with inert material, then place in a chemical waste container. Neutralize with soda ash or lime.
Large Spill: Stop spill at source. After absorbing and neutralizing as directed above, dike for later disposal. Dispose of only in accordance with local, state, and federal regulations.
Deactivating Chemicals: soda ash or lime

SECTION 7 : HANDLING AND STORAGE

Handling: Addition to water releases heat which can result in violent boiling and spattering. Always add slowly and in small amounts. Never use hot water. Never add water to acids. Always add acids to water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure.
Storage Requirements: Polyester-coated steel, rubber (Hypalon), and teflon are suitable.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses.
Skin Protection: Wear resistant gloves such as : neoprene, polyvinyl chloride. To prevent skin contact, wear impervious clothing and boots.
Respiratory Protection: If TLVs are exceeded (see section 2), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control.
Ventilation / Local Exhaust : Advisable to maintain below TLV requirements (see section 2).
Ventilation / Mechanical Recommendations: Inlet near surface.
Other Protective Equipment: Vinyl apron and rubber boots.
Exposure Guidelines: See section 2 for ACGIH recommendations for each hazardous ingredient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear amber liquid, acidic odor.
Water Solubility: Complete   **pH (1%):** < 2.0
Specific Gravity: 1.13   **Boiling Point (°F):** 212+   **Evaporation Rate(water=1):** N/A
% volatile: N/A   **Vapor Density(air=1):** N/A   **Vapor Pressure(mmHg):** N/A

MATERIAL SAFETY DATA SHEET

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: Hydrogen gas formed on contact with most metals. Hydrochloric acid vapors emitted when heated. Chlorine gas may be formed by electrolysis or oxidation.
Chemical Stability: Stable.
Conditions to Avoid: Contact with metals, metal oxides, hydroxides, amines, carbonates, and other alkaline metals.
Incompatibility with other Substances: Avoid contact with : alkali metals, strong alkalies. Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.
Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data:
EYES: Corrosive! May cause permanent damage.
SKIN: Corrosive! May cause permanent damage. Acute dermal LD50 (rabbits): >5,000 mg/kg.
INHALATION: LC50 (rats) : 4,700 ppm (30 minute exposure). LC50 (mice) : 2,600 ppm (30 minute exposure). Exposure of baboons of up to 10,000ppm hydrogen chloride for 15 minutes did not exhibit any lasting pulmonary effects at three days or three months later. 2,600 ppm (30 minute exposure).
INGESTION: Acute Oral LD50 (rabbits): 900 mg/kg. Acute Oral LD50 (rat): 700 mg/kg.

Carcinogenicity: This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxicological Information: Not available (pH dependent).
Environmental Effects: No data.
Persistence and Degradation: Not applicable. Material is already in a completely mineralized state.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Absorb spill with inert material, then place in a chemical waste container. Neutralize with soda ash or lime. For large spills, dike for later disposal. Dispose of only in accordance with local, state, and federal regulations.
Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? N o
If yes, the RCRA ID number is : N/A

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855*
*Please refer to c# referenced in section 1 of this msds.

DOT Proper Shipping Name: Hydrochloric Acid, Solution
DOT Hazard Class / Product Identification Number / Packing Group / DOT Label:
8 / UN1789 / PGII / Corrosive
This product is regulated as a hazardous material as defined by the Department of Transportation (DOT).
This product is regulated as a dangerous good as defined by the IATA for air transportation.
This product is regulated as a dangerous good as defined by the IMDG Code for Marine transport.

MATERIAL SAFETY DATA SHEET

SECTION 15 : REGULATORY INFORMATION

FEDERAL REGULATIONS (USA):
OSHA CLASSIFICATION : Corrosive as defined by the OSHA Hazardous communication standard.

SARA Regulations 313 and 40 CFR 372: Only aerosol forms (vapors, mists, gas or fog) of Hydrochloric Acid are subject to the SARA 313 Toxic Release Inventory reporting requirements.

SARA 311/312 Classification : Immediate (acute) health hazard

TSCA Inventory Listing :

Component	CAS Number
Hydrochloric Acid	7647-01-0

CERCLA RQ - 40CFR302.4(a) Reportable Quantity (Hydrochloric Acid) = 5, 000 lbs.

INTERNATIONAL REGULATIONS:

Workplace Hazardous Materials Information System (WHMIS) Classification : Class E : Corrosive Material

Canadian Domestic Substance List (DSL) Inventory Listing:

Chemical Name	CAS Number
Hydrochloric Acid	7647-01-0

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing:

Chemical Name	EINECS Number
Hydrochloric Acid	2315957

Japanese Minister of international Trade and Industry (MITI) Inventory Listing:

Chemical Name	Section Structure
Hydrogen Chloride	1-324

Australian Inventory of Chemical Substances (AICS) Listing:

Chemical Name	CAS Number
Hydrochloric Acid	7647-01-0

STATE REGULATIONS:
California Safe Drinking Water Act (Prop. 65) Listing : No ingredients listed in this section.

SECTION 16 : OTHER INFORMATION

NFPA Rating :   **HEALTH:** 3   **FLAMMABILITY:** 0   **REACTIVITY:** 1
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.