



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
 COLUMBUS, WISCONSIN 53925-0008
 (920) 623-2140
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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Hydrochloric Acid, 0.050N

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

03-03-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Hydrogen chloride*	7647-01-0	5 ppm Ceiling	5 ppm	Not available	<1

*Subject to SARA Section 313 Reporting Requirements.

Section III - Physical/Chemical Characteristics

Boiling Point	Not available	Specific Gravity (H ₂ O = 1)	1.0005
Vapor Pressure (mm Hg)	Not available	Melting Point	Not available
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water

Complete.

Appearance and Odor

Colorless liquid which has a sharp irritating odor.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None		Not applicable	Not applicable

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece respirator operated in positive pressure mode.

Unusual Fire and Explosion Hazards

Contact with reactive metals may result in the generation of flammable hydrogen gas which is flammable and explosive in air.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	HEAT
	Stable	X		

Incompatibility Materials to Avoid

Alkalis, amines, metals.

Hazardous Decomposition or Byproducts

Will yield Hydrogen gas from contact with most metals.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		
	Will Not Occur	X	

Section VI Health Hazard Data**Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

Multiple	Yes	Yes	Yes
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Health Hazards (Acute and Chronic)

EYES/SKIN: May cause irritation. INHALATION: Cause irritation of the mucous membranes and upper respiratory tract. INGESTION: May cause digestive tract irritation. Both liquid and vapor may cause burns which may not be immediately visible or painful.

Carcinogenicity**NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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Signs and Symptoms of Exposure.

Irritation, especially to mucous membranes of eyes and upper respiratory tract. Itching, redness, staining, swelling of exposed tissues. Ingestion may cause gastrointestinal pain, diarrhea, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Expected to aggravate asthma, emphysema, other respiratory diseases and existing dermatitis.

Emergency and First Aid Procedures

INGESTION: Wash out mouth with water provided person is conscious. Call a physician immediately. INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. SKIN: Flush with water for at least 15 minutes. Remove contaminated clothing; call a physician. EYES: Flush with large amounts of water for at least 15 minutes, lifting lower and upper eyelids.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Ventilate area. Wear self-contained breathing apparatus, rubber boots, heavy protective gloves and chemical safety goggles. Dike spill and neutralize with soda ash or lime. Ventilate and wash spill area when complete.

Waste Disposal Method

Dispose of spillage, empty containers, and other materials used for clean up in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Protect exposed tissues.

Other Precautions

Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures**Respiratory Protection (Specify Type)**

NIOSH/ MSHA-approved respirator with acid vapor cartridge.

Ventilation

Local Exhaust Required

Special Eye wash station.

Mechanical (General) Recommended.

Other Safety Shower.

Protective Gloves PVC or Neoprene

Eye Protection Chemical Safety Goggles

Other Protective Clothing or Equipment Rubber apron, boots. Full rubber acid suit. Faceshield.

Work /Hygienic Practices Do NOT wear contact lenses. Wash thoroughly after handling. Avoid eye and skin contact.

Avoid breathing vapors. Follow safe handling and laboratory practices. Wash hands prior to eating or smoking.

CORROSIVE! Avoid prolonged or repeated contact.

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