

MATERIAL SAFETY DATA SHEET

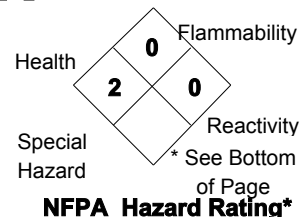


Manufactured by:

**Anderson
Chemical Company**

325 SOUTH DAVIS AVENUE
LITCHFIELD, MINNESOTA 55355
(320) 693-2477

Health 2
Flammability 0
Reactivity 0
Personal Protection X
HMIS Rating System*



Product Name: Hydrochloric Acid, 0.5 N

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 10/26/2010 lmt
Supersedes: 7/22/1997

I. IDENTIFICATION

Chemical Name And Synonyms:

Not applicable

DOT Shipping Name

Not Applicable

Chemical Family:

Acid

DOT Hazard Class & I.D. Number

PG

II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Hydrochloric Acid	7647-01-0	<4	7.5 mg/m3	7.5 mg/m3	NA	Corrosive to skin and eyes.

**Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable
NE: Not established

III. PHYSICAL DATA

Boiling Point: ~10 °C
Specific Gravity: 1.0841
Appearance: Clear colorless

Form: Liquid
Solubility In Water: Complete
Odor: Slightly pungent odor.

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Special Fire Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-contained breathing apparatus and other protective gear.

Unusual Fire And Explosion Hazards: May react with metals to release hydrogen gas.

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of: Eyes: May cause irritation, redness, pain, and tearing.

Over-exposure: Skin: May cause slight irritation.

Ingestion: May cause nausea, vomiting, cramps, and diarrhea.

Inhalation: May cause irritation.

Emergency And First Aid Procedures: Eyes: Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Inhalation: Remove victim from immediate source of exposure to fresh air. If breathing is difficult, get medical attention.

* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

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HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

VI. REACTIVITY DATA

Stability - Unstable:
Conditions To Avoid: None known.

Stable: x

Incompatibility: Most metals, Alkalis, active metals, cyanides, sulfides, sulfites, metal oxides, formaldehydes.
(Materials to Avoid)

Hazardous Decomposition Products: Fumes of hydrogen chloride and hydrogen in contact with metals. Chloride gas from oxidizers.

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Cover with sodium carbonate or soda ash. Add water to make slurry. Decant to drain. Treat the solid residue as normal refuse. Wash site with soda ash solution.

Waste Disposal Method: If material can not be salvaged, neutralize and then discharge into a treatment system in accordance with local, state and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required for normal use.

Ventilation: Normal ventilation is adequate.

Protective Gloves: Rubber or neoprene.

Eye Protection: Safety glasses

Protective Clothing: Not required for normal use.

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Handling: Wash hands after handling. Avoid contact with skin and eyes.
Storage: Protect from freezing and physical damage.

Other Precautions Safety showers and eyewash stations should be provided in the areas where this product is handled.

X. REVISED INFORMATION

MSDS Status: Section II (Hydrochloric Acid is not subject to 313 reporting)