

Section V - Reactivity Data Rating: 1

Stability	Unstable		Conditions to Avoid
	Stable	X	contact with acetic anhydride, 2-amino ethanol,

Incompatibility (Materials to Avoid) vinyl acetate; most metals; alkali or active metals

Hazardous Decomposition or Byproducts will react with water or steam to produce toxic and corrosive fumes.

Hazardous Polymerization	May Occur	Unk	Conditions to Avoid
	Will Not Occur	Unk	

Section VI - Health Hazard Data Rating: 3

Route(s) of Entry: Inhalation? yes Skin? yes Eyes? yes Ingestion? yes
Target Organs: respiratory system; skin; eyes

Health Hazards (Acute and Chronic)

Mutagenic date; irritation to skin, eyes and mucous membranes by ingestion and inhalation routes. It is a common air contaminate

Carcinogenicity:	NTP? NO	IARC Monographs? unk	OSHA Regulated? yes
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Signs and Symptoms of Exposure inflamed nose, throat, and larynx; cough; burns throat; burns eyes and

skin; dermatitis

Medical Conditions Generally Aggravated by Exposure Unk

Emergency and First Aid Procedures

Eyes: flush with water; seek medical attn Skin: water flush immediately

Inh: remove to fresh air Ing: seek medical attention

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken in Case Material Is Released or Spilled

Have commercial soda or a commercial acid spill clean up kit in case of spill.

Waste Disposal Method

Refer to the waste disposal section of this manual or consult manufacturer.

Precautions to Be Taken in Handling and Storing

Avoid splattering of solution. Avoid putting hot objects into solution.

Store containers on sturdy surface. Do not agitate solutions vigorously.

Other Precautions

Unk

Section VII - Control Measures Rating: 10

Respiratory Protection (Specify Type) if over 50ppm, self contained breathing apparatus

Ventilation	Local Exhaust	adequate air vent	Special	Unk
	Mechanical (General)	yes	Other vent to outside if high concen.	

Protective Gloves rubber or nitrile gloves Eye Protection safety gloves or goggles

Other Protective Clothing or Equipment wear equipment to prevent skin contact.

Work/Hygenic Practices Provide eyewash quick drench. Wash immediately when skin becomes contamin.

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR §1910.1200. To be valid, all information required by §1910.1200 (g) of the Standard must appear on this form. Consult the standard for specific requirements. 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.

IDENTITY (As Used on Label and List)

Hydrochloric Acid

Hazard Class:

D, J

Section I

Prepared from Standard Reference by : Health Career Learning Systems, Inc. Address (Number, Street, City, State and Zip Code) 37557 Schoolcraft Road Livonia, MI 48150	Emergency Telephone Number Telephone Number for Information Date Prepared Signature of Preparer (optional)
	Local Fire Department or EMS Local Poison Control August 1994

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	%(optional)
Hydrochloric Acid			TWA CL5ppm	
Anhydrous Hydrogen Chloride				
Hydrogen Chloride				

Note: All of the above in Section II are different chemical names for the same materials.

DOT classification: Corrosive

Section III - Physical/Chemical Characteristics

Boiling Point	-84.8°C	Specific Gravity (H2O = 1)	Unk
Vapor Pressure (mm Hg.)	4.0atm	Melting Point	-114.3°C
Vapor Density (AIR = 1)	1.639	Evaporation Rate (Butyl Acetate = 1)	Unk

Solubility in Water
62%

Appearance and Odor
colorless gas with an irritating, pungent odor.

Section IV - Fire and Explosion Hazard Data

Rating: 1

Flash Point (Method Used) NA	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media NA			
Special Fire Fighting Procedures NA			
Unusual Fire and Explosion Hazards NA			

Based on Draft of OSHA 174, September 1985. Replaces obsolete OSHA form 20 MSDS. This information herein is given in good faith but no warranty, expressed or implied, is made. ©1994, HCLF

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