

K20204

WASCO
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IMPORTANT!
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
 OSHA requires that this form be kept on file.
 Product No. SB 10449 M

CHEMTRON 800-424-9300

HEALTH HAZARD	3
FLAMMABILITY	0
REACTIVITY	2

Product Name **HYDROCHLORIC ACID**
 1N SOLUTION

Chemical Synonyms	N/A
Formula	HCl in H ₂ O
C.A.S. No.	7647-01-0

Principal Hazardous Component(s)	%	PEL	TLV Units
Hydrochloric Acid	3-4	5 ppm	5 ppm

* Chemical subject to the reporting requirements of SARA Title III.

Melting Point (°F)	N/A	Specific Gravity (H ₂ O=1)	1.019
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	N/A	Evaporation Rate	-1
Vapor Density (Air=1)	1.3		

Appearance & Odor	Colorless liquid with hydrogen chloride odor.			
Solubility in Water	Complete			
Flash Point (Method Used)	N/A	Flammable Limits in Air	Lower	Upper
Extinguisher Media	Use extinguishing media appropriate for surrounding fire.		N/A	N/A

Special Firefighting Procedures
 Firefighters should wear proper protective equipment and self-contained (positive pressure if available) breathing apparatus with full facepiece. Move exposed containers from fire area, if it can be done without risk. Use water to keep fire exposed containers cool; do not get water inside containers.

Unusual Fire and Explosion Hazards
 Closed containers exposed to heat may explode. Toxic gases produced: Hydrogen chloride, hydrogen gas.

DEC 14 1995

D.O.T. Not Regulated

7 mg/m3 (5 ppm)

Effects of Overexposure
 Inhalation of vapors may cause pulmonary edema, circulatory system collapse, damage to upper respiratory system collapse. Inhalation of vapors may cause coughing and difficult breathing. Liquid may cause severe burns to skin and eyes. Ingestion is harmful and may be fatal. Ingestion may cause severe burning to mouth and stomach. Ingestion may cause nausea and vomiting.

Emergency and First Aid Procedures
 Call a physician. If swallowed, do not induce vomiting; if conscious, give water, milk, or milk of magnesia. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen in case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Stability	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid	N/A
Incompatibility (Materials to Avoid)			Most common metals, strong bases, metal oxides, amines, carbonates.
Hazardous Decomposition Products			Hydrogen Chloride
Hazardous Polymerization	May <input type="checkbox"/> Occur <input type="checkbox"/> Will Not Occur	Conditions to Avoid	N/A

SECTION VII
 Steps to be Taken in Case Material is Released or Spilled
 Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. Ventilate area. Neutralize with soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill with water.

Waste Disposal Method
 Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities. Dispose in accordance with all applicable federal, state and local environmental regulations.

SECTION VIII	SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type)	NIOSH approved chemical cartridge respirator.
Ventilation	Local Exhaust <input checked="" type="checkbox"/> Mechanical (General) <input type="checkbox"/> Special <input type="checkbox"/> Other <input type="checkbox"/>
Protective Gloves	Acid-resistant gloves
Other Protective Equipment	Lab coat and apron

SECTION IX
 Precautions to be Taken in Handling & Storing
 Store in corrosion-proof area. Wash thoroughly after handling.

Other Precautions
 Read label on container before using. Do not wear contact lenses when working with chemicals.
 N/A

Approved by Steven C. Quarant Effective Date 10/1/95 For laboratory use only. Not for household use. Keep out of reach of children.