

IMPORTANT
MATERIAL SAFETY DATA SHEET

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

Product Name HYDROCHLORIC ACID
1N SOLUTION

SECTION I
Principal Hazardous Component(s)
Hydrochloric Acid

CHEMTREC 800-424-9300
HAZARD RATING
EXTREME
SEVERE
MODERATE
SLIGHT
MINIMAL

Health Hazard	3
Flammability	0
Reactivity	2

SECTION II
Chemical Synonyms N/A

Formula HCl in H₂O
C.A.S. No. 7647-01-0

SECTION III
Physical Properties
% 3-4 P.E.L. 5 ppm TLV Units 5 ppm

* chemical subject to the reporting requirements of SARA Title III.
SECTION IV

Melting Point (°F) N/A

Boiling Point (°F) N/A

Vapor Pressure (mm Hg) N/A

Vapor Density (Air=1) 1.3

Solubility in Water Complete

Appearance & Odor Colorless liquid with hydrogen chloride odor.

SECTION IV
Flash Point (Method Used) N/A

Extinguisher Media Use extinguishing media appropriate for surrounding fire.

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.

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D.O.T. Not Regulated

7 mg/m3 (5 ppm)

9217

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.

SECTION VI
Stability Stable ☒ 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 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 NIOSH approved chemical cartridge respirator.

Ventilation Local Exhaust X Mechanical (General) Special Other

Protective Gloves Acid-resistant gloves

Other Protective Equipment Lab coat and apron

SECTION IX
SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
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. Clandi Effective Date 10/17/95