

WILSON, WI 53190-0001
WESTO, CA 93349-0001
W-559-0595

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

Chemical
Synonyms
Formula
C.A.S. No.
7647-01-0
PEL
TLV Units
3-4 5 ppm 5 ppm

SECTION II
Physical Properties

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 III
Flammable Limits in Air
% by Volume

Lower N/A

Upper N/A

Extinguisher
Media

Use extinguishing media appropriate for surrounding fire.

SECTION IV
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.

SECTION V
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

Approved by Steven C. Quandt

Effective Date 10/17/95

For laboratory use only. Not for household use. Keep out of reach of children. For information only as a supplement to other information gathered by them.

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Nasco

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.

SECTION VI Reactivity

Stability
Conditions to Avoid
N/A

Stable
Unstable
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

May Occur
Will Not Occur
N/A

SECTION VII Spill or Leak Procedures

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

Exchange, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities 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
Mechanical (General)
Special
Other

Protective Gloves
Acid-resistant gloves

Eye Protection
Goggles and face

Other Protective
Equipment
Lab coat and apron

SECTION IX Special Precaution

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

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