



MAR 15 1991

MATERIAL SAFETY DATA SHEET

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NFPA HAZARD RATINGS

Health: 3 Flammability ...: 0
Reactivity : 0 Special Hazards.: 0

SECTION I - GENERAL INFORMATION

Catalog Number(s): HX0599 HX0600 306

Chemical Name.....: Hydrobromic Acid
Trade Name.....: Hydrogen Bromide Solution
C.A.S. Number.....: 10035-10-6
Chemical Family...: Acid
Formula.....: HBr (48% in water)
Molecular Weight...: 80.91
DOT Shipping Name: Hydrobromic Acid not more than 49% strength
DOT Number.....: UN1788

Biology

SECTION II - HAZARDOUS INGREDIENTS

None other than specific product.

SECTION III- PHYSICAL DATA

Boiling Point (C° 760 mm Hg)...: 126
Melting Point (C°)...: -63
Specific Gravity(H2O = 1)...: 1.488
Vapor Pressure..(mm Hg)...: 90 20C
Percent Volatile by Vol (%)...: N/A
Vapor Density (Air=1)...: N/A
Evaporation Rate (BuAc=1)...: N/A
Solubility in Water (%)...: Soluble
Appearance and Odor.....: Yellow - brown liquid

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (F°)...: Noncombustible
Flammable Limits LEL %...: N/A
Flammable Limits UEL %...: N/A
Extinguishing Media.....: Use any suitable for adjacent material.
Fire Fighting Proc.....: Wear self-contained breathing apparatus
and protective clothing.
Fire & Expl. Hazards....: Thermal decomposition produces highly
toxic fumes.

SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TLV/OSHA PEL (TWA).....: 3 ppm CL
Toxicity Data.....: ihl-rat LC50: 2858 ppm/1H
ihl-mus LC50: 814 ppm/1H
Symptoms of Exposure:
Toxic if inhaled or swallowed.
Causes severe burns on contact with any body tissue.
Can severely damage respiratory passages and lungs.
Medical Cond. Aggravated by Exp: Respiratory conditions.
Routes of Entry.....: Inhalation, ingestion or skin contact.
Carcinogenicity.....:
The material is not listed as cancer causing agent.
Emergency First Aid.....:
GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE
Skin: Immediately flush thoroughly with large amounts of water.
Eyes: Immediately flush thoroughly with water for at least 15 minutes.
Inhalation: Remove to fresh air; give artificial respiration if
breathing has stopped.
Ingestion: Do not induce vomiting; get immediate medical attention.

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SECTION VI - REACTIVITY DATA

Stability.....: YES
 Conditions to Avoid.....: Reacts with metals to form highly flammable, explosive hydrogen gas.
 Materials to Avoid.....: () Water () Acids
 () Bases () Corrosives (x) Oxidizers
 (x) Other: Metals, alkalies
 Hazardous Polymerization.: Does not occur
 Hazardous Decomposition.: Hydrogen, bromine

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Neutralize with NaHCO₃, dilute with excess water, take up with absorbent and containerize for proper disposal.
 Waste Disposal: To be performed in compliance with all current local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection: Material must be handled or transferred in an approved fume hood or with adequate ventilation.
 Protective gloves must be worn to prevent skin contact (Neoprene or equivalent).
 Safety glasses with side shields must be worn at all times.
 NIOSH-approved respirator should be worn in the absence of adequate ventilation.
 Impervious protective clothing should be worn to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS

Handling & Storage.....: Keep container tightly closed.
 Store in a cool, dry area away from incompatible material.
 Do not breathe vapor.
 Do not get in eyes, on skin, or on clothing.
 Retained residue may make empty containers hazardous; use caution!
 Work/Hygienic Practices: Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION X - OTHER INFORMATION

Comments.....: None
 Revision History.....: 3/82, 2/20/87, 2/9/88

N/A = Not available: