

Language: EN
Country:

**** MATERIAL SAFETY DATA SHEET ****

1-Bromo-3-chloropropane, 99%

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: 1-Bromo-3-chloropropane, 99%

Catalog Numbers:

10686-0000, 10686-0010, 10686-2500

Synonyms:

Trimethylene chlorobromide

Company Identification (Europe): Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification (USA): Acros Organics
One Reagent Lane
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
109-70-6	1-Bromo-3-chloropropane	99%	203-697-1		

Hazard Symbols: XN

Risk Phrases: 20/21/22 36/37/38

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:

Causes eye irritation. Causes redness and pain.

Skin:

Causes skin irritation. Harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.
May cause gastrointestinal irritation with nausea, vomiting and
diarrhea. May cause liver and kidney damage.

Inhalation:

Harmful if inhaled. Causes respiratory tract irritation. May cause
respiratory difficulty and coughing. Inhalation may cause nausea and
headache.

Chronic:

Not available.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15
minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not
breathing, give artificial respiration. If breathing is difficult,
give oxygen. Get medical aid.

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in
pressure-demand, MSHA/NIOSH (approved or equivalent), and full
protective gear. Combustible liquid.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage:
Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:
Wear chemical goggles.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Clear liquid
Color: Not available.
Odor: chloroform-like - sweetish odor
pH: Not available.
Vapor Pressure: 6.6mbar @20 deg C
Viscosity: Not available.
Boiling Point: 142 - 145 deg C
Freezing/Melting Point: -59 deg C
Autoignition Temperature: Not available.
Flash Point: 81 deg C (177.80 deg F)
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: Insoluble.
Specific Gravity/Density: 1.590
Molecular Formula: C3H6BrCl
Molecular Weight: 157.44

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, heat.
Incompatibilities with Other Materials:
Oxidizing agents, strong bases, aluminum, magnesium, zinc.
Hazardous Decomposition Products:
Hydrogen chloride, phosgene, carbon monoxide, carbon dioxide, hydrogen bromide.
Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 109-70-6: TX4113000
LD50/LC50:
CAS# 109-70-6: Inhalation, rat: LC50 = 5668 mg/m3; Inhalation, rat: LC50 = 6500 mg/m3/4H; Oral, mouse: LD50 = 1290 mg/kg; Oral, rat: LD50 = 930 mg/kg.
Skin, rat: LD50 = 1600 mg/kg
Inhalation, rat: LC50 = 6.5 mg/l/4H
Carcinogenicity:
1-Bromo-3-chloropropane -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Fish: Goldfish: LC50: 75 mg/l; 24 H; .Log Pow: 2.18

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

Shipping Name: 1-BROMO-3-CHLOROPROPANE
Hazard Class: 6.1
UN Number: 2688
Packing Group: III

IMO

Shipping Name: 1-BROMO-3-CHLOROPROPANE
Hazard Class: 6.1
UN Number: 2688
Packing Group: III

RID/ADR

Shipping Name: 1-BROMO-3-CHLOROPROPANE
Hazard Class: 6.1
UN Number: 2688
Packing group: III

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with
skin and if swallowed.
R 36/37/38 Irritating to eyes, respiratory system
and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.
S 45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).

WGK (Water Danger/Protection)

CAS# 109-70-6: 3

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 109-70-6 is listed on Canada's DSL List.

CAS# 109-70-6 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 109-70-6: OEL-RUSSIA:STEL 3 mg/m3

US FEDERAL

TSCA

CAS# 109-70-6 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 10/08/1998 Revision #1 Date: 10/28/2003

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