

MATERIAL SAFETY DATA SHEET

1-BROMO-3-CHLOROPROPANE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 1-Bromo-3-chloropropane
Synonyms: Trimethylene chlorobromide
Company Identification: **Sisco Research Laboratories Pvt. Ltd.**
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2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name:	%	EINECS#
109-70-6	1-Bromo-3-chloropropane	98%	203-697-1

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: May cause eye irritation. Causes redness and pain.
Skin: May cause 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. May cause respiratory tract irritation. May cause respiratory difficulty and coughing. Inhalation may cause nausea and headache.

Chronic:

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:

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.

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. Do not let this chemical enter the environment.

7 - HANDLING AND STORAGE

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

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

- Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.
- Exposure Limits** CAS# 109-70-6
- Personal Protective Equipment**
- Eyes:** Wear chemical splash 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State:** Liquid
- Boiling Point:** 138-142°C
- Specific Gravity/Density:** 1.600-1.602
- Molecular Formula:** C₃H₆BrCl
- Molecular Weight:** 157.44

10 - STABILITY AND REACTIVITY

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

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 109-70-6: TX4113000
LD50/LC50: RTECS: 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;
Other: Skin, rat: LD50 = 1600 mg/kg
Carcinogenicity: 1-Bromo-3-chloropropane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Goldfish: LC50: 75 mg/l; 24 H; .
Other: Do not empty into drains. Not readily biodegradable.
Log POW: 2.2

13 - DISPOSAL CONSIDERATIONS

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

14 - TRANSPORT INFORMATION

	IATA	IMO	RID/ADR
Shipping Name:	1-Bromo-3-Chloropropane	1-Bromo-3-Chloropropane	1-Bromo-3-Chloropropane
Hazard Class:	6.1	6.1	6.1
UN Number:	2688	2688	2688
Packing Group:	III	III	III

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 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S 36/37 Wear suitable protective clothing and gloves.S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)CAS# 109-70-6: 3

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

US Federal

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

16 - ADDITIONAL INFORMATION

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