## SECTION-1: Identification of the substance / mixture and the company / undertaking

| | |
|---|---|
| **Catalogue Number** | CS-T-67054 |
| **Product Name** | Bis(2-chloroisopropyl) Ether |
| **CAS No.** | 108-60-1 |
| **Category** | Pesticide Standards |
| **Synonyms** | 1-chloro-2-((1-chloropropan-2-yl)oxy)propane |
| **Brand** | Clearsynth Labs Ltd. |
| **Identified uses** | Laboratory Chemicals |
| **Uses advised against** | Not available |
| **Company** | Clearsynth Labs Ltd.<br>Mumbai, India |
| **Emergency Phone #** | +91-22-245045900 |
| **REACH No.** | Not available |

## SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email **sales@clearsynth.com** for more details.

### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Skin irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
Acute toxicity (Category 4)

### 2.2 Label Elements

**Signal Word:** Warning

**Hazard Statement(s)**

| Code | Statement |
|---|---|
| H300 | Not available |
| H301 | Not available |

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | Not available |
| H227 | Not available |
| H302 | Harmful if swallowed. |

**Precautionary Statement(s)**

| Code | Statement |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P264+P265 | Not available |
| P270 | Not available |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P316 | Not available |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen |
| P319 | Get medical help if you feel unwell. |
| P321 | Specific treatment (see … on this label). |
| P330 | Not available |
| P332+P317 | If skin irritation occurs: Get medical help. |
| P337+P317 | If eye irritation persists: Get medical help. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulatio |
| P210 | Not available |
| P301+P317 | Not available |
| P370+P378 | Not available |

| | |
|---|---|
| P403 | Not available |

## SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Bis(2-chloroisopropyl) Ether
CAS Number : 108-60-1
Molecular Formula : C6H12Cl2O
Molecular Weight : 171.06
Parent Chemical : -
Synonyms : 1-chloro-2-((1-chloropropan-2-yl)oxy)propane
Concentration : Not available

## SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or are severe.
Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
Skin contact: Wash with plenty of soap and water. Seek medical attention if irritation develops or persists.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
Not available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. No data available.

## SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire (e.g., dry chemical, carbon dioxide, alcohol-resistant foam, water spray).
Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture
May emit hazardous decomposition products under fire conditions. Thermal decomposition may produce irritating and/or toxic fumes/gases. Specific decomposition products: Not available.

5.3 Advice for firefighters
Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool containers with water spray to prevent rupture. Prevent fire-fighting water from entering drains or waterways.

## SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Evacuate unnecessary personnel. Ensure adequate ventilation. Avoid breathing vapors/mist. Avoid contact with skin and eyes. Wear appropriate personal protective equipment.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Prevent entry into drains, sewers, and waterways.

6.3 Methods and material for containment and cleaning up
Contain spill. Absorb with inert material (e.g., sand, earth, vermiculite). Collect into suitable, labeled containers for disposal. Clean contaminated area with appropriate methods. Dispose of waste in accordance with local regulations.

6.4 Reference to other sections
See Section 8 for personal protective equipment and Section 13 for disposal considerations.

## SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Use only with adequate ventilation. Avoid breathing vapors/mist. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Keep container tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated place. Keep container tightly closed. Protect from heat and ignition sources. Store away from incompatible materials. Incompatible materials: Not available.

7.3 Specific end use(s)
Pesticide standard / laboratory use. Not for food, drug, or household use.

## SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits: Not available.
Biological limit values: Not available.

8.2 Exposure controls
Engineering controls: Provide local exhaust ventilation or general dilution ventilation to maintain airborne concentrations below applicable limits (if established).
Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Wear appropriate chemical-resistant gloves and protective clothing.
- Respiratory protection: If ventilation is inadequate or exposure is possible, use appropriate respiratory protection in accordance with applicable regulations.

- Hygiene measures: Wash hands after handling. Remove and wash contaminated clothing before reuse.
Environmental exposure controls: Avoid release to the environment; use appropriate containment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Test | Result |
|---|---|
| Appearance | No data available |
| IR spectrum | No data available |
| pH | No data available |
| Solubility | No data available |

| Property | Value |
|---|---|
| a) Physical State | No data available |
| b) Color | No data available |
| c) Odor | No data available |
| d) pH | No data available |
| e) Vapour Pressure | No data available |
| f) Viscosity | No data available |
| g) Initial Boiling Point and boiling range | No data available |
| h) Melting Point / Freezing Point | No data available |
| i) Auto Ignition Temperature | No data available |
| j) Flash Point | No data available |
| k) Explosion Limit, Lower | No data available |
| l) Explosion Limit, Upper | No data available |
| m) Decomposition Temperature | No data available |
| n) Loss on Drying | No data available |
| o) Relative Density | No data available |
| p) Solubility (in DMSO) | No data available |
| q) Oxidizing Properties | No data available |

## SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Heat, flames, sparks, and other ignition sources. Other conditions: Not available.

10.5 Incompatible materials
Not available.

10.6 Hazardous decomposition products
May form irritating and/or toxic fumes/gases upon decomposition. Specific products: Not available.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: LC50 (rat) = 350 ppm/8h The toxicity of /bis(2-chloro-1-methylethyl) ether/ is somewhat less than that of the dichloroethyl ether but damage occurs in the liver and kidneys rather than in the lungs. /Bis(2-chloro-1-methylethyl) ether/ causes no primary irritation of the skin but may penetrate the skin sufficiently to cause death. ... No cases of injury to health of humans have been reported.
- Skin corrosion/irritation: With the notable exception of the chloromethyl ethers and the glycidyl ethers, the ethers as a group have little general toxicological action in industrial use. Their /CNS depressant/ action causes them to produce loss of consciousness on appreciable exposure and, as good fat solvents, they cause dermatitis on repeated or prolonged skin contact. Enclosure and ventilation are to be employed to avoid excessive exposure. Barrier creams and impervious gloves assist in preventing skin irritation. In the event of loss of consciousness, the person should be removed from the contaminated atmosphere and given artificial respiration and oxygen. /Chloromethyl ethers/
- Serious eye damage/eye irritation: RATS EXPOSED TO AN ATMOSPHERE BELIEVED TO BE ESSENTIALLY SATURATED ... EXHIBITED SIGNS OF IMMEDIATE EYE IRRITATION AND SOME INCOORDINATION; THE MAX EXPOSURE TIME CAUSING NO DEATH WAS 1 HR.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Suggestive evidence of carcinogenic potential Evaluation: No epidemiological data relevant to the carcinogenicity of bis(2-chloro-1-methylethyl)ether were available. There is limited evidence in experimental animals for the carcinogenicity of bis(2-chloro-1-methylethyl)ether. Overall evaluation: Bis(2-chloro-1-methylethyl)ether is not classifiable as to its carcinogenicity to humans (Group 3).
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- Moderately toxic by skin contact and inhalation. An eye irritant.

Symptoms related to the physical, chemical and toxicological characteristics
- RATS EXPOSED TO AN ATMOSPHERE BELIEVED TO BE ESSENTIALLY SATURATED ... EXHIBITED SIGNS OF IMMEDIATE EYE IRRITATION AND SOME INCOORDINATION; THE MAX EXPOSURE TIME CAUSING NO DEATH WAS 1 HR.

## SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Not available.

12.5 Results of PBT and vPvB assessment
Not available.

12.6 Endocrine disrupting properties
Not available.

12.7 Other adverse effects
Not available.

## SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment.
Contaminated packaging: Dispose of as hazardous waste unless adequately cleaned. Not available for specific recommendations.

## SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number
Not available.

14.2 UN proper shipping name
Not available.

14.3 Transport hazard class(es)
Not available.

14.4 Packing group
Not available.

14.5 Environmental hazards
Not available.

14.6 Special precautions for user
Not available.

14.7 Maritime transport in bulk according to IMO instruments
Not available.

## SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Not available.

15.2 Chemical safety assessment
Not available.

## SECTION 16: Other information

SECTION 16: Other information

Product name: Bis(2-chloroisopropyl) Ether
Catalog no.: CS-T-67054
CAS no.: 108-60-1
Synonyms: 1-chloro-2-((1-chloropropan-2-yl)oxy)propane
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

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Revision date: Not available.

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