

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. 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 present.
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 regulations.
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

Disclaimer: The information provided is based on available product identification details and is intended for SDS authoring support. No warranty is expressed or implied. Users are responsible for determining suitability and for compliance with applicable laws and regulations.

Revision date: Not available.

DISCLAIMER

This MSDS is system-generated. Please verify and confirm all data, statements, and values with the Support Team before use or distribution.