



Safety Data Sheet

Version 1.0
Revision Date: 21/11/2023

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **Ethylene bis(2-bromoisobutyrate)**
Product number: EBIB
Product use: For laboratory research purposes.
Supplier / Manufacturer: Polymer Source, Inc.
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2. HAZARDS IDENTIFICATION

Emergency overview: GHS classification: Acute toxicity – Oral (Category 4);
Serious eye damage (Category 1);
Short-term aquatic hazard (Category 3);

Globally Harmonized System (GHS) Label elements, including precautionary statements:

Pictogram:



Signal word:

Warning

Hazard statements:

H302. Harmful if swallowed.
H318. Causes serious eye damage.
H402. Harmful to aquatic life.

Precautionary statements:

P261. Avoid breathing dust, fume, gas, mist, vapours, spray.
P264. Wash skin thoroughly after handling.
P270. Do not eat, drink or smoke when using this product.
P271. Use only outdoors or in a well-ventilated area.
P280. Wear protective gloves, eye protection, face protection.
P301 + P312 + P330. *IF SWALLOWED*: Rinse mouth. Call a Poison Center/Doctor if you feel unwell.
P302 + P352. *IF ON SKIN*: Wash with plenty of water.

P304 + P340 + P312. *IF INHALED*: Remove person to fresh air and keep comfortable for breathing. Call a Poison Center / doctor if you feel unwell.

P305 + P351 + P338. *IF IN EYES*: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313. *If skin irritation occurs*:
Get medical advice / attention.

P337 + P313. *If eye irritation persists*:
Get medical advice/ attention.

P362 + P364. Take off contaminated clothing and wash it before reuse.

P403 + P233. Store in a well-ventilated place.
Keep container tightly closed.

P501. Dispose of contents/ container to an approved waste disposal plant.

Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Skin:	Harmful if absorbed through skin. Causes skin irritation.
	Eyes:	Harmful if contact with eyes occurs. Causes serious eye damage
	Ingestion:	May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance:	Ethylene bis(2-bromoisobutyrate)
Synonym:	Ethane-1,2-diyl bis(2-bromo-2-methylpropanoate)
Formula:	C ₁₀ H ₁₆ Br ₂ O ₄
Molecular weight:	360.04 g/mol
Concentration:	≤ 100 %
CAS registry number:	248603-11-4

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical or carbon dioxide.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Hazardous combustion products:	Carbon oxides, Hydrogen bromide gas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Heat sensitive. Light sensitive. Storage class (TRGS 510): 11: Combustible Solids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Use mechanical exhaust or laboratory fumehood to avoid exposure. Wash hands before breaks and at the end of workday.
Personal protective equipment:	
• Respiratory protection:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
• Eye protection:	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
• Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

- Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	solid
	Color:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	> 110°C
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapor pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapor density (Air = 1.0):	12.4
	Odor:	no data available
	Odor threshold:	no data available
	Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	no data available
Conditions to avoid:	no data available
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, HBr

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available

	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	
Serious eye damage/eye irritation.	no data available	
Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	no data available	
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	no data available	
Teratogenicity:	no data available	
Specific target organ toxicity:	Single exposure (GHS):	no data available
	Repeated exposure (GHS):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Skin:	Harmful if absorbed through skin. Causes skin irritation.
	Eyes:	Harmful if contact with eyes occurs. Causes serious eye irritation.
	Ingestion:	Harmful if swallowed.
Signs and symptoms of exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Synergistic effects:	no data available	
Additional information:	RTECS:	not available

12. ECOLOGICAL INFORMATION

Toxicity:	no data available
Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

Date of the latest revision: 21 November 2023

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.