

Material Safety Data Sheet (MSDS)

Ethylene Brassylate

CAS Number: 105-95-3

Prepared by: Triveni Chemicals

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Version: 1.0

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

- **Product Name:** Ethylene Brassylate
- **Synonyms:** 1,4-Dioxacycloheptadecane-5,17-dione; Cyclopentadecanolide dicarboxylate
- **Recommended Use:** Laboratory chemicals, fragrance ingredient
- **Supplier:**

Triveni Chemicals

Office No. 123-124, Pancharatna, Char Rasta, GIDC,

Vapi - 396195, Gujarat, India

Phone: +91-9696960250

Email: info@trivenichemical.com

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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SECTION 2: Hazards Identification

- **GHS Classification:**
 - Not classified as hazardous under GHS criteria
- **Signal Word:** None
- **Hazard Statements:**
 - None applicable
- **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling
 - P270: Do not eat, drink, or smoke when using this product
 - P501: Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Concentration
Ethylene Brassylate	105-95-3	≥99%

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Seek medical advice if symptoms persist.

- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if feeling unwell.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Combustible material; may emit irritating vapors in a fire.
- **Protective Equipment:** Wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Ensure adequate ventilation. Wear appropriate personal protective equipment.
- **Environmental Precautions:** Prevent product from entering drains. Avoid release to the environment.
- **Methods for Cleaning Up:** Absorb with inert material (e.g., sand, earth), sweep up and place in suitable waste container. Dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

- **Handling:** Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation. Avoid inhalation of vapors.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from strong oxidizers.

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:**
 - **Eye/Face Protection:** Safety goggles
 - **Skin Protection:** Protective gloves and clothing
 - **Respiratory Protection:** If ventilation is insufficient, wear suitable respiratory protection
 - **Hygiene Measures:** Wash hands and face after handling. Do not eat, drink, or smoke while working with this material.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	liquid
Odor	Musky, sweet odor
Density	~1.04 g/cm ³ at 20 °C
Melting Point	Not determined
Boiling Point	138 - 142 °C
Flash Point	165 °C
Solubility in Water	Practically insoluble
Partition Coefficient (n-octanol/water)	Not available
Autoignition Temperature	Not available

SECTION 10: Stability and Reactivity

- **Chemical Stability:** Stable under normal storage conditions.
- **Conditions to Avoid:** Excessive heat, flames, sparks.
- **Incompatible Materials:** Strong oxidizing agents

- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide

SECTION 11: Toxicological Information

- **Acute Toxicity:**
 - Oral LD₅₀ (Rat): >5000 mg/kg (estimated)
- **Skin Corrosion/Irritation:** Not classified
- **Serious Eye Damage/Irritation:** May cause mild eye irritation
- **Respiratory or Skin Sensitization:** Not classified
- **Germ Cell Mutagenicity:** Not classified
- **Carcinogenicity:** Not classified
- **Reproductive Toxicity:** Not classified
- **Specific Target Organ Toxicity – Single Exposure:** Not classified
- **Specific Target Organ Toxicity – Repeated Exposure:** Not classified
- **Aspiration Hazard:** Not classified

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Not classified as hazardous
- **Persistence and Degradability:** Expected to be biodegradable
- **Bioaccumulative Potential:** Low
- **Mobility in Soil:** Low due to poor water solubility
- **Other Adverse Effects:** Avoid uncontrolled release to the environment

SECTION 13: Disposal Considerations

Dispose of contents/container in accordance with local, regional, national, or international regulations. Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not applicable
- **Special Precautions for User:** None

SECTION 15: Regulatory Information

- **Safety, Health, and Environmental Regulations:**
 - Listed on TSCA (USA), EINECS/ELINCS (EU)
 - Not listed under REACH SVHC

SECTION 16: Other Information

Prepared By: Triveni Chemicals, Regulatory Affairs Department

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