

TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. GHS product identifier

Product Name - TRIMETHYLSULFOXONIUM BROMIDE
CAS-No.: 25596-24-1

1.2. Other means of identification

Synonyms – TRIMETHYLSULFOXONIUM BROMIDE, TriMethylsulfoxoniM BroMide, 98.0% (T)

1.3. Recommended use of the chemical and restrictions on use

Recommended Use - Laboratory chemicals, Intermediate & Manufacture of substances.

1.4. Supplier's detail

Supplier Address

Intech Organics Limited
Plot No - 27, Sector – 34
Gurgaon | Haryana - 122004
Email: info@intech.in
Web: www.intech.in

1.5. Emergency telephone number

Emergency Telephone Number - +91-124-4407000

2. HAZARDS IDENTIFICATION

- Classification of the substance or mixture:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).
- Label elements Pictogram(s):** Not Classified
- Hazard statement(s):** Not Classified
- Precautionary statement(s): Prevention** Wash hands thoroughly after handling
- Response:** IF exposed or concerned: Get medical advice/attention
- Storage:** Not Classified
- Disposal:** Not Classified
- Other Hazard:** Not Classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENTS | CAS | Molecular weight | Formula | EEC NO | EU CLASSIFICATION |
|------------------------------|-------------------|------------------|-----------------|--------|-------------------|
| TRIMETHYLSULFOXONIUM BROMIDE | 25596-24-1 | 173.07 | C3H9BrOS | | |
| | | | | | |

TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

4. FIRST AID MEASURES

4.1. Description of necessary first-aid measures

Eyes: Rinse with pure water for at least 15 minutes. Consult a doctor.

Skin: Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

Inhalation: Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

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. This chemical poses an explosion hazard. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flashback. Vapors can spread along the ground and collect in low or confined areas.

Extinguishing Media: Use dry chemical, carbon dioxide or alcohol-resistant foam.

Flash Point : 64°C.

Autoignition Temperature: 275°C

Explosion Limits,

Lower: .5%

Upper: 2.5%

NFPA 704: HEALTH 0 Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials

FIRE 1 Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)

SPEC. HAZ.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,

Protective equipment and emergency procedures Avoid dust formation. Avoid breathing mist, gas or

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TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure limit values

Not Classified

Biological limit values

Not Classified

Exposure controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk elimination area.

Individual protection measures

Eye/face protection Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

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TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

Skin protection Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

Not Classified

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- **Physical state:** Solid
- **Colour:** White -
- **Odour:** Not Available
- **Melting point/freezing point:** 252°C(lit.)
- **Boiling point or initial boiling point and boiling range :** 71°C/12mmHg(lit.)
- **Flammability:** Not Available
- **Lower and upper explosion limit/flammability limit:** Not Available
- **Flash point** 64°C(lit.)
- **Auto-ignition temperature:** 275°C
- **Decomposition temperature:** Not Classified
- **pH:** Not Available
- **Kinematic viscosity:** Not Available
- **Solubility:** Not Available
- **Partition:** coefficient n-octanol/water no data available
- **Vapour pressure:** Not Available
- **Density and/or relative density:** Not Available
- **Relative vapour density:** Not Available
- **Particle characteristics:** Not Classified

10. STABILITY AND REACTIVITY

- **Reactivity:** Not Available
- **Chemical stability:** Stable under recommended storage conditions
- **Possibility of hazardous reactions:** Not Available
- **Conditions to avoid:** Extremes of temperature and direct sunlight.
- **Incompatible materials** Strong oxidizing agents
- **Hazardous decomposition products:** Hydrogen sulfide. Carbon oxides

TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity**
- Oral: Not Classified
- Inhalation: Not Classified
- Dermal: Not Classified
- **Skin corrosion/irritation** Not Classified
- **Serious eye damage/irritation:** Not Classified
- **Respiratory or skin sensitization:** Not Classified
- **Germ cell mutagenicity:** Not Classified
- **Carcinogenicity:** Not Classified
- **Reproductive toxicity:** Not Classified
- **STOT-single exposure:** Not Classified
- **STOT-repeated exposure:** Not Classified
- **Aspiration hazard:** Not Classified

12. ECOLOGICAL INFORMATION

- **Ecotoxicity** May cause long lasting harmful effects to aquatic life 100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.
- **Persistence and degradability:** Not Classified
- **Bio accumulative potential:** Not Classified
- **Mobility in soil:** Not Classified
- **Other adverse effects:** Not Classified

13. DISPOSAL CONSIDERATIONS

- **Disposal methods**
- **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems

14. TRANSPORT INFORMATION

| | US DOT | IMDG | IMDG |
|-----------------------|------------------------------|---------------|---------------|
| Shipping Name: | TRIMETHYLSULFOXONIUM BROMIDE | | |
| UN Number: | | | |
| Packing Group: | Not Regulated | Not Regulated | Not Regulated |
| Hazard class | Not Regulated | Not Regulated | Not Regulated |
| Storage hazard class | Not Regulated | Not Regulated | Not Regulated |

15. REGULATORY INFORMATION

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TRIMETHYLSULFOXONIUM BROMIDE
SAFETY DATA SHEET

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS): Not listed
EC Inventory: Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory: Not Listed.

China CatLog of Hazardous chemicals 2015: Not Listed.

New Zealand Inventory of Chemicals (NZ IoC): Not Listed.

PICCS: Not Listed.

Vietnam National Chemical Inventory: Not Listed.

IECSC Not Listed. Korea Existing Chemicals List (KECL): Not Listed.

16. OTHER INFORMATION

Material safety data sheet issued by: INTECH ORGANICS LTD.

Contact No.: +91-124-4407000

E-mail: info@intech.in

Other Special Considerations: Not available

The above information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, consequential or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

END OF SAFETY DATA SHEET

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