

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0
Prepared on : 02.03.2026
Revised on : -

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

1.1 Product identifiers

Product name 1,2-Bis(tosyloxy)ethane
Product Number PSR50262
Brand PureSynth research chemicals
CAS No. 6315-52-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company PureSynth Research Chemicals GmbH.
64683 Einhausen Marie-Curie-StraBe. 3, Germany

1.4 Emergency telephone number

Worldwide Helpline No.: 1800-8908-260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation, (Category 2) H315: Causes skin irritation.
Eye irritation, (Category 2) H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, (Category 3),
Respiratory system H335: May cause respiratory irritation

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H319 Causes serious eye irritation
H335 May cause respiratory irritation.

Precautionary statement(s)

| | |
|--------------------------------|--|
| P261 | Avoid breathing dust. |
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/ eye protection/ face protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Supplemental Hazard Statements | none |

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition / information on ingredients

3.1 Substances

| Common names & Synonyms | Mol. formula | CAS number |
|--|---|---------------|
| Ethylene glycol ditosylate Ethylene ditosylate | C ₁₆ H ₁₈ O ₆ S ₂ | 6315-52-2 |
| Component | Classification | Concentration |
| 2,4-Dibromo-6-fluorobenzaldehyde | Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 | <= 100 % |

SECTION 4: First aid measures

Description of first aid measures

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|---|---|
| General advice | Show this material safety data sheet to the doctor in attendance. |
| If inhaled | After inhalation: fresh air |
| In case of skin contact | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| In case of eye contact | After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. |
| If swallowed | After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. |
| Most important symptoms and effects, both acute and delayed | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed | No data available |

SECTION 5: Fire fighting measures

Extinguishing media

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| Suitable extinguishing media | Water Foam Carbon dioxide (CO ₂) Dry powder |
| Unsuitable extinguishing media | For this substance/mixture no limitations of extinguishing agents are given. |

| | |
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| Special hazards arising from the substance or mixture | Carbon oxides Sulphur oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. |
| Advice for fire-fighters | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |
| Further information | Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |

SECTION 6: Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. |
| Environmental precautions Methods and materials for containment and cleaning up | Do not let product enter drains. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections | For disposal see section 13. |

SECTION 7: Handling and storage

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| Precautions for safe handling | For precautions see section 2.2. |
| Conditions for safe storage, including any incompatibilities | Tightly closed. Dry. Storage class (TRGS 510): 11: Combustible Solids |
| Specific end use(s) | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |

SECTION 8: Exposure controls / Personal protection

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| Control parameters | Ingredients with workplace control parameters |
| Exposure controls | Personal protective equipment |
| Appropriate engineering controls | No data available |
| Personal protective equipment: | |
| Eye / face protection | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses |
| Hand protection | No data available |
| Skin protection | This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min |
| Body protection | protective clothing |
| Respiratory protection | required when dusts are generated. |

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type P2
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Control of environmental exposure Do not let product enter drains.

SECTION 9: Physical and chemical properties

| | |
|---|------------------------------------|
| Appearance | Form: crystalline Colour: beige |
| Odour | No data available |
| pH - Value | No data available |
| Density | No data available |
| Boiling Point | No data available |
| Melting Point | 124 - 127 °C - lit |
| Solubility in water | No data available |
| Flash point | No data available |
| Vapour pressure | No data available |
| Auto -ignition temperature | No data available |
| Vapour density | No data available |
| Flammability (solid, gas) | No data available |
| Evaporation rate | No data available |
| Partition coefficient: n- octanol / water | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Upper / lower flammability or explosive limits | No data available |
| Oxidizing properties | No data available |

Other safety information: No data available

SECTION 10: Stability and reactivity

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|---|---|
| Reactivity | The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. |
| Chemical stability | The product is chemically stable under standard ambient conditions (room temperature). |
| Possibility of hazardous reactions | No data available |
| Condition to avoid | No data available |
| Incompatible materials | Strong oxidizing agents |
| Hazardous decomposition products | In the event of fire: see section 5 |

SECTION 11: Toxicological information

Acute toxicity Oral: No data available

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|---|--|
| | Inhalation: No data available |
| | Dermal: No data available |
| Skin corrosion/irritation | Remarks: No data available |
| Serious eye damage/eye irritation | Remarks: No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | Inhalation - May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional Information | Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |

SECTION 12: Ecological information

Toxicity

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|---|-------------------|
| Toxicity to fish | No data available |
| Toxicity to daphnia and other aquatic invertebrates | No data available |
| Toxicity to algae | No data available |
| Toxicity to bacteria | No data available |

Persistence and degradability No data available

Biodegradability No data available

Bio accumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects No data available

SECTION 13: Disposal considerations

Waste treatment methods No data available

Products

Contaminated packaging No data available

SECTION 14: Transport information

| | UN no. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|------------------|--------|-------------------------|------------------|-----------------|------------------|
| ADR / RID | - | Not dangerous goods | - | - | no |
| IMDG | - | Not dangerous goods | - | - | no |
| IATA | - | Not dangerous goods | - | - | no |

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

The information in this SDS 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 with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.