

**Safety Data Sheet**

according to UK REACH Regulation

**1,2-Bis(tosyloxy)ethane**

Revision date: 01.06.2022

Product code: 6180

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

1,2-Bis(tosyloxy)ethane

**Further trade names**

1,2-Ethanediol ; 1,2-bis(4-methylbenzenesulfonate)

**Synonyms:**

Ethylene ditosylate; Ethylene glycol ditosylate; 1,2-Bis(tosyloxy)ethane;  
 1,2-Bis(4-methylbenzenesulfonyloxy)ethane; 1,2-Bis(p-toluenesulfonyloxy)ethane;  
 1,2-Bis(p-tolylsulfonyloxy)ethane; 1,2-Bistosyloxy ethane; 1,2-Di(tosyloxy)ethane; 1,2-Ethanediol ditosylate;  
 1,2-Ethylene ditosylate; Di-O-tosylglycol; Ethylene 1,2-bis(tosylate); Ethylene di-p-toluenesulfonate; Ethylene glycol bis(p-toluenesulfonate); Ethylene glycol di-p-tosylate; Ethylene glycol ditoluenesulfonate; Ethylene glycol ditosylate

CAS No: 6315-52-2

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Precursor for [18F]Fluoroethylcholine

**1.3. Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
e-mail:	info@abx.de	
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732
e-mail:	meyer@abx.de	
Internet:	http://www.abx.de	

**1.4. Emergency telephone number:**

+49 3528 4041 60

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Irrit. 2; H315  
 Eye Irrit. 2; H319  
 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

1,2-Bis(tosyloxy)ethane

**Signal word:** Warning**Pictograms:**

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**Hazard statements**

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

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

**SECTION 3: Composition/information on ingredients****3.1. Substances****Chemical characterization**

1,2-Ethanediol ; 1,2-bis(4-methylbenzenesulfonate)

Sum formula: C<sub>16</sub>H<sub>18</sub>O<sub>6</sub>S<sub>2</sub>

Molecular weight: 370.44

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
6315-52-2	1,2-Bis(tosyloxy)ethane	95 - < 100 %
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).**5.2. Special hazards arising from the substance or mixture**In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Sulfur oxides.**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

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### Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Wear personal protection equipment. Provide adequate ventilation. Avoid dust formation.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not breathe dust. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Protect skin by using skin protective cream.

#### Further information on handling

When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed.

#### Further information on storage conditions

storage temperature:

of °C: 2

up to °C: 8

Protect against: Light.

Store under (Gas): argon.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls

#### Appropriate engineering controls

refer to chapter 7. No further action is necessary.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Eye protection: Tightly sealed safety glasses.

##### Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

##### Skin protection

Body protection: Lab apron. Chemical resistant safety shoes.

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### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: solid  
Colour: colourless

#### Changes in the physical state

Melting point/freezing point: 124 - 127 °C

#### Solubility in other solvents

Chloroform

## SECTION 10: Stability and reactivity

### 10.4. Conditions to avoid

Light. Water.

### 10.5. Incompatible materials

Oxidizing agents, strong.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

## SECTION 12: Ecological information

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### SECTION 14: Transport information

**Other applicable information**

No dangerous good in sense of these transport regulations.

#### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

#### SECTION 16: Other information

**Relevant H and EUH statements (number and full text)**

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