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|--|--------------------------------------|--------------------------|
| <b>Product Name:</b> 6-O-(p-Toluenesulfonyl)- $\beta$ -Cyclodextrin  | <b>Product Number:</b> CY-2021       | <b>Date:</b> 2015.02.26. |
|  <b>CYCLOLAB R&amp;D. Ltd., Budapest, Hungary</b> | <b>Date of Revision:</b> 2015.02.26. |                          |
|  | <b>Version:</b> 2.0                  |                          |

## 1. Identification of the Substance/Preparation and Company

### Name of substance/preparation:

Chemical name: 6-O-Monosyl- $\beta$ -Cyclodextrin  
(6-O-(p-Toluenesulfonyl)- $\beta$ -Cyclodextrin)  
Abbreviation: mTsBCD

### Use of substance/preparation:

Laboratory chemicals

### Information about supplier of the safety data sheet:

Cyclolab R&D. Ltd., Budapest, Hungary  
H-1097 Budapest, IX. Illatos út 7, Hungary  
Tel: (36-1)-347-60-60; Fax: (36-1)-347-60-68; e-mail: [cyclolab@cyclolab.hu](mailto:cyclolab@cyclolab.hu)

## 2. Hazards Identification

### Classification and labelling according to EC 1272/2008

|          |   |   |
|----------|---|---|
| H-phrase | - | - |
| P-phrase | - | - |

Not a dangerous substance according to GHS.

### Classification and labelling according to 67/548/EEC, EC 1999/45

|          |   |   |
|----------|---|---|
| R-phrase | - | - |
| S-phrase | - | - |

This substance is not classified as dangerous according to Directive 67/548/EEC.

### Further information:

Risk of dust explosion.

## 3. Composition/Information on ingredients

### Chemical characterization (preparation):

| EC-No. | CAS No.    | Chemical characteristics                       |
|--------|------------|--|
| -      | 67217-55-4 | 6-O-(p-Toluenesulfonyl)- $\beta$ -Cyclodextrin |

## 4. First-Aid Measures

### General information

In case of accident or if you feel unwell seek medical advice (show label or MSDS where possible)

### If inhaled

Provide fresh air.

### In case of skin contact

Wash off with plenty of water and soap.

### In case of eye contact

Rinse thoroughly with plenty of water.

### If swallowed

Rinse mouth with water. Drink several small portions of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

## 5. Fire Fighting Measures

### Suitable extinguishing media:

Water, extinguishing powder, alcohol-resistant foam, carbon dioxide

### Extinguishing media which must not be used for safety reasons:


n.d.

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

At low oxygen level: carbon monoxide

### Special protective equipment for fire fighters:

Use respiratory protection independent of recirculated air.

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## 6. Accidental Release Measures

### Personal precautions:

Avoid dust formation. Do not breath dust.

### Environmental precautions:

Cover any spilled material in accordance with regulations to prevent dispersal by wind. Observe local/state/federal regulations.

### Methods for cleaning up:

Take up mechanically and dispose of according to local/state/federal regulations. Avoid formation of dust and dust deposition.

## 7. Handling and Storage

### Handling

**Precaution for safe handling:** Avoid dust formation.

**Precautions against fire and explosion:** Observe the general rules for fire prevention. Avoid dust deposit, remove dust regularly. Take precautionary measures against electrostatic charging. Take precautionary measures against dust explosion.

### Storage

**Conditions for storage rooms and vessels:** Observe precautionary measures against dust explosion.

**Advice for storage of incompatible materials:** none known

**Further information for storage:** Keep container tightly closed. Protect from direct light and source of heat. Store under dry conditions in cool place.

## 8. Exposure Control and Personal Protection Equipment

### Exposure limits

n.d.

### Exposure limited and controlled

#### Exposure in the workplace limited and controlled:

**General protection and hygiene measures:** Observe standard industrial hygiene practices for the handling of chemical substances.

#### Personal protection equipment:

*Respiratory protection:* In case of dust formation: fine dust mask without protection rating.

*Hand protection:* rubber gloves

*Eye protection:* tight fitting protective goggles

#### Exposure to the environment limited and controlled:

Prevent material from entering surface waters and soil

### Further information for system design and engineering measures

Observe information in section 7.


## 9. Physical and Chemical Properties

### General information

|                            |                     |
|----------------------------|---------------------|
| <b>Physical state/form</b> | solid - powder      |
| <b>Colour</b>              | white or off-white  |
| <b>Odour</b>               | slight earthy smell |

### Important information about the protection of health, safety, and the environment

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Flash point</b>                    | n.d.                     |
| <b>Ignition temperature</b>           | n.d.                     |
| <b>Auto-ignition temperature</b>      | n.d.                     |
| <b>Oxidizing properties</b>           | no                       |
| <b>Lower explosion limit (LEL)</b>    | n.d.                     |
| <b>Upper explosion limit (UEL)</b>    | n.d.                     |
| <b>Bulk density</b>                   | n.d.                     |
| <b>Water solubility / miscibility</b> | < 1 g/100cm <sup>3</sup> |
| <b>pH- value</b>                      | n.d.                     |

|   |                                      |                          |
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### Other information

See Product Information Sheet.

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## 10. Stability and Reactivity

### General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

### Conditions to avoid:

None known

### Materials to avoid:

Decomposes in strongly acidic and basic solutions

### Hazardous decomposition products:

None known

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## 11. Toxicological Information

### General information:

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

### Toxicological tests:

#### Acute toxicity (LD50/LC50-values relevant to classification):

n.d.

#### Primary irritation:

n.d.

#### Sensitization:

n.d.

#### Substance to chronic toxicity:

n.d.

#### Reference points for mutagenic potential:

n.d.

### Experience with man:

n.d.

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## 12. Ecological Information

### Ecotoxicity

n.d.

### Mobility

n.d.

### Persistence and degradability

Biodegradation / further information: n.d.


### Bio-accumulation potential

n.d.

### Additional information

Prevent material from entering surface waters and soil. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

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### 13. Disposal Considerations

#### Material

**Recommendation:**

Prevent material from entering surface waters and soil. Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

#### Uncleaned packaging

**Recommendation:**

Dispose of as unused product. Observe local/state/federal regulations.

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### 14. Transport Regulations

#### Land transport ADR and RID:

**Road ADR:**

Not regulated for transport.

**Railway RID:**

Not regulated for transport

#### Transport by sea IMDG-Code:

**Sea IMDG-Code:**

Not regulated for transport

#### Air transport ICAO-TI/IATA-DGR:

**Air transport ICAO-TI/IATA-DGR:**

Not regulated for transport

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### 15. Regulatory Information

National and local regulations must be observed.

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### 16. Other Information

#### Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet (if applicable).

#### Further information

This version supersedes all previous versions.