


<b>Product name:</b> Maltooctaose, anomeric mixture	<b>Product code:</b> CY-4006	<b>Revised date:</b> October 31, 2019
 <b>CYCLOLAB R&amp;D. Ltd., Budapest, Hungary</b>		<b>Version: 1.0</b>

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

### Name of substance/preparation:

Chemical name: Maltooctaose, anomeric mixture

### Use of substance/preparation:

Laboratory chemicals

### Information about Manufacturer:

Cyclolab R&D. Ltd., Budapest, Hungary

H-1097 Budapest, IX. Illatos út 7, Hungary

Tel: (36-1)-347-60-70; Fax: (36-1)-347-60-71; e-mail: [cyclolab@cyclolab.hu](mailto:cyclolab@cyclolab.hu)

## 2. Hazards Identification

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

H-phrased	-	-
P-phrased	-	-

Not a dangerous substance according to GHS.

### Further information:

## 3. Composition/Information on ingredients

### Chemical characterization (preparation):

EC-No.	CAS No.	Chemical characteristics
-	6156-84-9; 66567-45-1	Maltooctaose, anomeric mixture

## 4. First-Aid Measures

### General information

In case of accident or if you feel unwell seek medical advice (show this sheet 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:

Wear personal protection equipment. Avoid dust formation. Do not breathe 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. Dispose of cleansing water in accordance with local/state/federal regulations.

## 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:** Store in cool place. Keep container tightly closed. Protect from direct light. Store in dry and well-ventilated 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
<b>Odour</b>	n.d.

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

<b>Melting point/range</b>	> 175 °C
<b>Flash point</b>	n.d.
<b>Ignition temperature</b>	n.d.
<b>Auto-ignition temperature</b>	n.d.
<b>Oxidizing properties</b>	n.d.
<b>Lower explosion limit (LEL)</b>	n.d.
<b>Upper explosion limit (UEL)</b>	n.d.
<b>Bulk density</b>	n.d.

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<b>Water solubility / miscibility</b>	n.d.
<b>pH- value</b>	5.5-7.5

**Other information**

See Product Information Sheet.

**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

**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.

**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. Only introduce into water purification plants in diluted state. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable

**13. Disposal Considerations****Material**


**Recommendation:**

Observe local/state/federal regulations.

**Uncleaned packaging**

**Recommendation:**

Completely discharge containers (no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

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#### 14. Transport Regulations

##### Land transport ADR and RID:

**Road ADR:**

Not dangerous goods.

**Railway RID:**

Not dangerous goods.

##### Transport by sea IMDG-Code:

**Sea IMDG-Code:**

Not dangerous goods.

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

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

Not dangerous goods.

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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.