


<b>Product name: (2-Hydroxypropyl)-<math>\gamma</math>-cyclodextrin</b>	<b>Product code: CY-3005</b>	<b>Revised date: 2020.01.15.</b>
 <b>CYCLOLAB R&amp;D. Ltd., Budapest, Hungary</b>		<b>Version: 1.2</b>

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

### Name of substance/preparation:

Chemical name: (2-Hydroxypropyl)- $\gamma$ -cyclodextrin  
Abbreviation: HPGCD

### Use of substance/preparation:

Laboratory chemicals, manufacture of substances, solubilizer, chiral selector

### Information about supplier of the MSDS:

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-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
-	128446-34-4	(2-Hydroxypropyl)-gamma-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:


No data (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 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:** Keep container tightly closed. Protect from direct light and source of heat.

Store under dry conditions below 30 °C, in 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 or off-white
<b>Odour</b>	n.a.

### 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>	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 (in 100 cm<sup>3</sup> at 25 °C)</b>	>50 g
<b>pH- value (1% in water)</b>	6.0 - 9.0

**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):**

Exposition	Species	Value/ Value range	Source
oral	rat	> 2000 mg/kg	test report

**Primary irritation:**

Exposition	Effect	Species/Test system	Source
to skin	not irritating	rabbit	test report
to eyes	not irritating	rabbit	test report

**Sensitization:**

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-Kligmann	guinea-pig	test report

**Substance to chronic toxicity:**

n.d.

**Reference points for mutagenic potential:**

Test system	Effect	Source
Mammalian Erythrocyte Micronucleus Test	not mutagenic	test report
Bacterial Reverse Mutation Test	not mutagenic	test report
In vitro Mammalian Chromosomal Aberration Test	not mutagenic	test report

**Experience with man:**

n.d.

**12. Ecological Information****Ecotoxicity**

Species	Test method	Exp. Time	Result	Source
Daphnia magna	acute	48 h	> 100 mg/l (EC 50)	test report

According to current knowledge adverse effects on water purification plants are not expected.

**Mobility**

n.d.


**Persistence and degradability****Biodegradation / further information:**

Method	Degree of elimination	Classification	Source
CO <sub>2</sub> Evolution Test/Modified Sturm Test	< 17%, in 28 day(s)	Not readily biodegradable	test report

Prevent material from entering surface waters and soil. Only introduce into water purification plants in diluted state.

**Bio-accumulation potential**

n.d.

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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.