

# Safety Data Sheet

Release 1.0  
Revision 01/21/2022  
Date of issue 04/27/2022



page 1 of 4

## 1 Identification of the substance

### 1.1 Product identifier

Identification of the substance Pentagalacturonic Acid

#### Additional identification

Catalogue Number OP36504

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

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

Identified uses other biochemicals

Restriction on use not for food or drug use, for laboratory use only

### 1.3 Details of the supplier of the safety data sheet

Company Carbosynth Ltd  
8&9 Old Station Business Park  
COMPTON RG20 6NE  
Phone +44 1635 578444  
Mail customerservice@biosynth-carbosynth.com

### 1.4 Emergency telephone number

Phone 24hr/7days: +44 118 338 8269

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Physical Hazards

not classified

#### Health Hazards

not classified

#### Environmental Hazards

not classified

### 2.2 Label elements

#### Regulatory List

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

#### Precautionary Statement

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

### 2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

## 3 Composition/information on ingredients

### Substance related information

Substance name Pentagalacturonic Acid

Synonyms

Cas No. [40386-94-5]

Formula  $C_{30}H_{42}O_{31}$

## 4 First aid measures

---

#### 4.1 Description of first aid measures

**First Aid: Eye**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**First Aid: Skin**

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

**First Aid: Ingestion**

Wash out mouth with water provided person is conscious. Call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Hints for Physician: Symptoms**

See Section 11 for additional information on health hazards

#### 4.3 Indication of any immediate medical attention and special treatment needed

**First Aid: Inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Hints for Physician: Treatment**

Treat symptomatically.

---

### 5 Firefighting measures

#### 5.1 Extinguishing Media

**Suitable**

foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>), water spray jet

#### 5.2 Special hazards arising from the substance or mixture

Wear a self-contained breathing apparatus and chemical protective clothing.

**Hazards During Fire-Fighting**

toxic fumes

#### 5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

---

### 6 Accidental release measures

#### 6.1 Personal Precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

#### 6.2 Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

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

not available

#### 6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

---

### 7 Handling and storage

#### 7.1 Precautions for safe handling

**Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

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

**Storage temperature**

store at 10°C - 25°C

**Storage Requirements**

Keep away from incompatible substances. Keep container tightly closed when not in use.

#### 7.3 Specific end use(s)

---

### 8 Exposure controls/personal protection

#### 8.1 Exposure limit values

Does not contain any substances with occupational exposure limits.

**8.2 Exposure controles****Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

**8.3 Personal Protective Equipment****Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection**

Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection**

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling**

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

**9 Physical and chemical properties****9.1 Information on basic Physical and chemical color properties**

*Form*

powder

*Phase Transition Liquid/Gas*

1,380.50 °C

*Flash Point*

422.40 °C

**9.2 Other information**

*Molar Mass*

898.64 g/mol

**10 Stability and reactivity****10.1 Reactivity**

No Data Available

**10.2 Chemical stability**

No Data Available

**10.3 Possibility of hazardous reaction**

No Data Available

**10.4 Conditions to Avoid (SDS)**

incompatible materials

**10.5 Incompatible materials**

strong oxidizers

**10.6 Hazardous decomposition products**

carbon dioxide (CO<sub>2</sub>), carbon monoxide

**11 Toxicological information****11.1 Information on toxicological effects****Other Relevant Toxicity Information**

We are not aware of any toxicology data.

**12 Ecological Information****12.1 Toxicity**

<b>Acute toxicity versus Fishing</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
<b>Acute toxicity in aquatic plants</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available

Acute toxicity versus Daphnia and others aquatic invertebrates	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available

**12.2 Persistence and degradability**

Remarks : no data available

**12.3 Bioaccumulative potential**

Remarks : no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**13 Disposal considerations****Advice on Disposal and Packaging***Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

*Advice on Packaging*

not available

**14 Transport information**

	Road Transport(ADR/GGVS)	Air Transport(IATA)
<b>14.1 UN number</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.2 UN proper shipping name</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.3 Transport hazard class(es)</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.4 Packing group</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.5 Environmental hazard class(es)</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.6 Special precautions for user</b>	Not applicable	Not applicable
<b>14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code</b>	Not applicable	Not applicable

**15 Other regulations****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

not available

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Pentagalacturonic Acid	-----	-----	-----

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

**16 Additional information**

BIOSYNTH & CARBOSYNTH provides this MSDS in good faith. No representation is made as to the accuracy or comprehensiveness of the data and BIOSYNTH & CARBOSYNTH shall not be liable for any errors in the data. No representation is made as to the fitness of the data or of the materials for any particular use. No representation or warranty is made as to damages or injury. User assumes all responsibility for compliance with all laws and regulations implicated by use of this material.