

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : (S)-3-Hydroxybutyric acid  
Product code : GK9869  
CAS number : 6168-83-8

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

PC21: Laboratory chemicals.

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

Company name	: Glentham Life Sciences Ltd	Telephone	: +44 (0) 1225 667 798
	Unit 5 Leafield Way	Fax	: +44 (0) 2033 978 909
	Corsham SN13 9SW	Email	: info@glentham.com
	United Kingdom	Web	: www.glentham.com

#### 1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1225 667 798 (09.00 – 17.00 GMT)

#### 1.5 REACH

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under CLP

Skin Irrit. 2, Eye Irrit. 2, STOT SE 3.

#### 2.2 Label elements

Label elements under CLP

##### Pictograms



##### Signal words

Warning

##### Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

##### Precautionary statements

P261

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

### 3.0 Composition/information on ingredients

#### 3.1 Substances

Product name	: (S)-3-Hydroxybutyric acid	MW:	104.1
CAS number	: 6168-83-8	MF:	C4H8O3

### 4.0 First aid measures

#### 4.1 Description of first aid measures

##### Skin contact

Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

##### Eye contact

Bathe the eye with running water for 15 minutes. Consult a doctor.

##### Ingestion

Wash out mouth with water. Consult a doctor.

##### Inhalation

Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.

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

##### Skin contact

There may be irritation and redness at the site of contact.

##### Eye contact

There may be irritation and redness. The eyes may water profusely.

##### Ingestion

There may be soreness and redness of the mouth and throat.

##### Inhalation

There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

##### Delayed / immediate effects

Immediate effects can be expected after short-term exposure.

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

##### Immediate / special treatment

Eye bathing equipment should be available on the premises.

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### 5.0 Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

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

##### Exposure hazards

In combustion emits toxic fumes.

#### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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### 6.0 Accidental release measures

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

##### Personal precautions

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

#### 6.2 Environmental precautions

Do not discharge into drains or rivers.

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

##### Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.3 Reference to other sections

Refer to section 8 of SDS.

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### 7.0 Handling and storage

#### 7.1 Precautions for safe handling

##### Handling requirements

Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

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

##### Storage conditions

Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.

#### 7.3 Specific end use(s)

No data available.

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### 8.0 Exposure controls/personal protection

#### 8.1 Control parameters

##### Workplace exposure limits

Not applicable.

#### 8.2 Exposure controls

**Engineering measures**

Ensure there is sufficient ventilation of the area.

**Respiratory protection**

Respiratory protective device with particle filter. Self-contained breathing apparatus must be available in case of emergency.

**Hand protection**

Protective gloves.

**Eye protection**

Safety glasses. Ensure eye bath is to hand.

**Skin protection**

Protective clothing.

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**9.0 Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical Form:

Colour:

**9.2 Other information**

Not applicable.

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**10.0 Stability and reactivity****10.1 Reactivity****10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions****Hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials****Materials to avoid**

Strong acids. Strong oxidising agents.

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**11.0 Toxicological information****11.1 Information on toxicological effects****Toxicity values**

Not applicable.

**11.2 Information on toxicological effects****Skin contact**

There may be irritation and redness at the site of contact.

**Eye contact**

There may be irritation and redness. The eyes may water profusely.

**Ingestion**

There may be soreness and redness of the mouth and throat.

**Inhalation**

There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects**

Immediate effects can be expected after short-term exposure.

**Other information**

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**12.0 Ecological information****12.1 Toxicity**

Not applicable.

**12.2 Persistence and degradability**

Biodegradable.

**12.3 Bioaccumulative potential**

No bioaccumulation potential.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This substance is not identified as a PBT substance.

**12.6 Other adverse effects**

Negligible ecotoxicity.

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**13.0 Disposal considerations**

**13.1 Waste treatment methods**

**Disposal operations**

Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB**

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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**14.0 Transport information**

This product does not require a classification for transport.

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**15.0 Regulatory information**

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

Not applicable.

**Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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**16.0 Other information**

**Other information**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

**Legal disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.