GP2862 v2.0



### Safety Data Sheet

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#### According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

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

#### 1.1 Product identifier

1.

Product code	:	GP2862
Product name	:	Bromelain, 1200 GDU/g
CAS number	:	37189-34-7
EINECS	:	232-572-4
Physical form	:	solid, substance
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.

#### 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 : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H315	Skin Irr. 2
H319	Eye Irr. 2A
H334	Resp. Sens. 1
H335	STOT SE 3
H336	STOT SE 3

#### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



Signal words	Danger
Hazard statements	
H315	Causes skin irritation
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statement	S
P261	Avoid breathing dust/fume/gas/mist/vapors/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.
P342+P311	IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/
P264	Do not breathe fume.
Other hazards	
PBT	

This substance is not identified as a PBT substance.

2.3

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#### 3.0 Composition/information on ingredients

#### 3.1 Substances

Name	Identifier	%	Classification
Bromelain, 1200 GDU/g	CAS: 37189-34-7 EC: 232-572-4 REACH: Not applicable	1200GDU/ g	H315, Skin Irr. 2 H319, Eye Irr. 2A H334, Resp. Sens. 1 H335, STOT SE 3 H336, STOT SE 3

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	ntact Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.	
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.	
Ingestion	Consult a doctor. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Wash out mouth with water.	
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor.	

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

Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness.
Ingestion	There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs. There may be soreness and redness of the mouth and throat.
Inhalation	Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. 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.

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

#### Exposure hazards

In combustion emits toxic fumes.

#### 5.3 Advice for fire-fighters

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

#### 6. Accidental release measures

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

Personal precautions

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Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. 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. Notify the police and fire brigade immediately. Refer to section 8 of SDS for personal protection details.

#### 6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

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

#### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4 Reference to other sections

Refer to section 8 of SDS.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling requirements

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

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

#### Storage conditions

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

#### 7.3 Specific end use(s)

No data available.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### Workplace exposure limits

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

Engineering measures	Ensure there is exhaust ventilation of the area. 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. Self-contained breathing apparatus must be used in handling.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

#### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### <sup>10.2</sup> Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

#### Hazardous reactions

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

No data available. No data available.

#### <sup>10.4</sup> Conditions to avoid

Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

#### <sup>11.1</sup> Information on toxicological effects

#### a) Acute toxicity

No data available.

#### b) Skin corrosion/irritation Skin corrosion/irritation (Category 2)

#### c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 2A)

- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity
   No data available.

# h) STOT-single exposure Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

#### i) STOT-repeated exposure No data available.

- Aspiration hazardNo data available.
- 11.2 Symptoms / routes of exposure

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	Skin contact There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.			
	Eye contact	Eye contact The eyes may water profusely. There may be irritation and redness.		
	Ingestion	There may be irritation of the throat. There may be shortness of bread lungs. There may be soreness and redness of the mouth and throat	5	
	Inhalation	Exposure may cause coughing or wheezing. There may be congest shortness of breath. There may be irritation of the throat with a feeling	<b>e e</b>	
	Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immedia short-term exposure.	te effects can be expected after	
	Other information	No data available.		
12.	Ecological information	n		
12.1	Toxicity			
	No data available.			
12.2	Persistence and degra	adability		
	Biodegradable.			
12.3	Bioaccumulative pote	ntial		
	No bioaccumulation po	otential.		
12.4	Mobility in soil			
	Readily absorbed into	soil.		
12.5	Results of PBT and v	PvB assessment		
	This substance is not i	identified as a PBT substance.		
12.6	Endocrine disrupting	properties		
	This substance is not i	identified as having endocrine disrupting properties		
12.7	Other adverse effects			
	No data available.			
13.	Disposal consideratio	ne		
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 reg	arding disposal.	
14.	Transport information			
	This product does not	require a classification for transport.		
15.	Regulatory informatio	n		
15.1	Safety, health and environm	nental regulations/legislation specific for the substance or mixture		
	This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.			
	Authorisations/Restrictions			
	authorisation:	07/2006, REACH, Annex XIV list of substances subject to	No data available.	
		07/2006, REACH, Annex XVII restrictions on the manufacture, placing use of certain dangerous substances:	No data available.	
		05/2009 on substances that deplete the ozone layer:	No data available.	
	Regulation (EC) 85 2019/1021:	0/2004 on persistent organic pollutants, amended by (EU) No	No data available.	

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#### 15.2 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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OECD Orga PBT Pers	g Term Exposure Limit
PBT Pers	Dbservable Effective Concentration
	anisation for Economic Cooperations and Development
DDE Doro	sistent Bioaccumulative Toxic
	sonal Protective Equipment
REACH Regi	istration, Evaluation, Authorisation and Restriction of Chemicals
RID Regi	ulations Concerning the International Carriage of Dangerous Goods by Rail
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	ty Data Sheet
	rt Term Exposure Limit
vPvB Very	tile Organic Compounds

# This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

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