GZ9736 v2.0



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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	: GZ9736
Product name	: beta-Amylase, from barley
CAS number	: 9000-91-3
EINECS	: 3.2.1.2
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

H334 Resp. Sens. 1

2.2 Label elements

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

Pictograms



Signal words Hazard statements	Danger
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P342+P311	IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/
Other hazards	
PBT	

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

2.3

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4. 4.1

4.2

5.2

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Name		Identifier	%	Classification
beta-Amylase, from	barley	CAS: 9000-91-3 EC: 3.2.1.2 REACH: Not applicable	20U/mg	H334, Resp. Sens. 1
irst aid measures				
Description of first a	d measures			
Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin.			
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.			
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water.			
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.			
lost important symp	otoms and effects, both ac	ute and delayed		
Skin contact	There may be irritation	and redness at the site o	f contact.	
Eye contact	The eyes may water pr	ofusely. There may be pa	in and rednes	S.
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.			
Inhalation	Nausea and stomach p in the chest. There may		y be irritation	of the throat with a feeling of tightness
Delayed / immediate effects	Immediate effects can	be expected after short-te	erm exposure.	Nausea and stomach pain may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

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

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. Refer to section 8 of SDS for personal protection details.

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.

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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 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 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	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.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.
they information	

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

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10.2	Chemical stability		
	Stable under normal co	onditions.	
10.3	Possibility of hazardou	is reactions	
	Hazardous reactions		
	Decomposition may oc transport or storage co	cur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal nditions.	
10.4	Conditions to avoid		
	Heat.		
10.5	Incompatible materials		
	Materials to avoid		
	Strong acids. Strong ox	kidising agents.	
11.	Toxicological informat	ion	
11.1	Information on toxicol	ogical effects	
a)	Acute toxicity		
	No data available.		
b)	Skin corrosion/irritatio No data available.	n	
c)	Serious eye damage/irritation		
	No data available.		
d)	Respiratory or skin sensitisation No data available.		
e)	Germ cell mutagenicity		
_	No data available.		
f)	Carcinogenicity No data available.		
g)	Reproductive toxicity		
3,	No data available.		
h)	STOT-single exposure		
	No data available.		
i)	STOT-repeated exposu	Ire	
	No data available.		
j)	Aspiration hazard No data available.		
11.2	Symptoms / routes of exposure		
	Skin contact	There may be irritation and redness at the site of contact.	
	Eye contact	The eyes may water profusely. There may be pain and redness.	
	Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Inhalation	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.	
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.	
	Other information	No data available.	
12.	Ecological information		
12.1	Toxicity		

No data available.

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	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled	
10.	H-Statement Full Texts	
16.	Other information	
	A chemical safety assessment has not been carried out for the substance or the mixture by the	ne supplier.
15.2	Chemical safety assessment	
	Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available. No data available.
	Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	No data available.
	Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
	Authorisations/Restrictions	
	Regulation (EU) 2020/787.	
-	This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/20	006, amended by Commission
15. 15.1	Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.	Regulatory information	
	This product does not require a classification for transport.	
14.	Transport information	
	The user's attention is drawn to the possible existence of regional or national regulations rega	arding disposal.
	NB	
	Transfer to a suitable container and arrange for collection by specialised disposal company.	
13.1	Waste treatment methods Disposal operations	
13. 13.1	Disposal considerations Waste treatment methods	
4.0	Discossi accessi danati acc	
	No data available.	
12.7	Other adverse effects	
	This substance is not identified as having endocrine disrupting properties	
12.6	Endocrine disrupting properties	
	This substance is not identified as a PBT substance.	
12.5	Results of PBT and vPvB assessment	
	Readily absorbed into soil.	
12.4	Mobility in soil	
	No bioaccumulation potential.	
12.3	Bioaccumulative potential	
	Biodegradable.	

Abbreviations Full Texts

ADN ADR ALARP CAS CLP COSHH	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number

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

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. 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 document does not guarantee the properties or quality of the product.