GX5821 v2.0

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Safety Data Sheet

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

		1 64	
Identification of th	e substance/mixture	and of the co	mpany/undertaking

1.1 Product identifier

1.

Product code	: GX5821
Product name	: Barium nitrate, 99%
CAS number	: 10022-31-8
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	r CLP according to (EC) 1272/2008	
orabonnoution under		

H272	Ox. Sol. 2
H302	Acute Tox. 4
H319	Eye Irr. 2A
H332	Acute Tox. 4

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H272	May intensify fire: oxidizer
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
Precautionary statements	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P220	Keep away from clothing and other combustible materials.
P221	Take any precaution to avoid mixing with combustibles/
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.
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
Barium nitrate, 99%	CAS: 10022-31-8 EC: REACH: Not applicable	98.5%	H272, Ox. Sol. 2 H302, Acute Tox. 4 H319, Eye Irr. 2A H332, Acute Tox. 4

4. First aid measures

4.1 Description of first aid 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. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. 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.

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	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
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	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term 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. Eye bathing equipment should be available on the premises.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

In combustion emits toxic fumes. Oxidising.

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. Remove all incompatible materials as outlined in section 10 of SDS. 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.

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. Avoid incompatible materials and conditions - see section 10 of SDS. 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.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Tightly fitting safety goggles. 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	595 °C
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.

^{10.2} 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. 94 g/L @ 20 °C

No data available. No data available.

No data available.

No data available.

3.240

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Organic materials. Strong acids. Strong oxidising agents.

11. Toxicological information

^{11.1} Information on toxicological effects

a) Acute toxicity

No data available.

- b) Skin corrosion/irritation No data available.
- 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 No data available.
- 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 contact.								
Eye contactMay cause permanent damage. The eyes may water profusely. The vision may become blurred.There may be irritation and redness. There may be pain and redness. There may be severe pain.								
Ingestion	Nausea and stomach pain There may be vomiting.	may occur. There may	be soreness and redness c	f the mouth and throat.				
Inhalation	Nausea and stomach pain in the chest. There may be		be irritation of the throat wit	th a feeling of tightness				
Delayed / immediate effects Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.								
Other information No data available.								
Ecological information	n							
Toxicity								
No data available.								
Persistence and degra	adability							
Biodegradable.								
Bioaccumulative pote	ntial							
No bioaccumulation potential.								
Mobility in soil								
Readily absorbed into	Readily absorbed into soil.							
Results of PBT and vF	PvB assessment							
This substance is not i	identified as a PBT substanc	e.						
Endocrine disrupting	properties							
This substance is not i	identified as having endocrin	e disrupting properties						
Other adverse effects								
No data available.								
Disposal considerations								
Waste treatment methods								
Disposal operations								
Transfer to a suitable container and arrange for collection by specialised disposal company.								
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.								
Transport information								
ADR	IMDG	ΙΑΤΑ	ADN	RID				
14.1. UN number								
UN1446	UN1446	UN1446	UN1446	UN1446				
14.2. UN proper shipping name								
BARIUM NITRATE	BARIUM NITRATE	Barium nitrate	BARIUM NITRATE	BARIUM NITRATE				
Transport document description								
UN1446 BARIUM NITRATE, 5.1 (6.1),	UN1446 BARIUM II NITRATE, 5.1 (6.1), II	UN1446 Barium nitrate, 5.1 (6.1), II	UN1446 BARIUM NITRATE, 5.1 (6.1), II	UN1446 BARIUM NITRATE, 5.1 (6.1), II				

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5.1 (6.1)	5.1 (6.1)	5.1 (6.1)	5.1 (6.1)
51			51
II	II	II	II
14.5. Environmental hazards			
No	No	No	No

15. Regulatory information

15.1 Safety. healt	h and environmental reg	ulations/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		
	Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	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) 1005/2009 on substances that deplete the ozone layer:	No data available.
	Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

15.2 Chemical safety assessment

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

16. Other information

H-Statement Full Texts

H272	May intensify fire: oxidizer
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled

Abbreviations Full Texts

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ALARP	As low as is reasonably practicable			
CAS	Chemical Abstracts Service			
CLP	Classification, Labelling and Packaging Regulations			
COSHH	Control of Substances Hazardous to Health			
EC Number	European Community Number			
EC50	Effective Concentration 50%			
EILINCS	European List of Notified Chemical Substances			
EINECS	European Inventory of Existing Commercial Chemical Substances			
GHS	Globally Harmonised System			
HSE	Health & Safety Executive UK			
IATA	International Air Transport Association			
IM	Intramuscular			
IMDG	The International Maritime Dangerous Goods Code			
IP	Intraperitoneal			
IV	Intravascular			
LD50	Lethal Dose 50%			
LOEC	Lowest Observable Effective Concentration			
LTEL	Long Term Exposure Limit			
NOEC	No Observable Effective Concentration			
OECD	Organisation for Economic Cooperations and Development			
PBT	Persistent Bioaccumulative Toxic			
PPE	Personal Protective Equipment			

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

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.