GX5151 v2.0



Safety Data Sheet

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

Idontification of th	e substance/mixture	and of the cor	nnanv/undortaking

1.1 Product identifier

1.

Product code	: GX5151
Product name	: Lithium, granules
CAS number	: 7439-93-2
EINECS	: 231-102-5
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

H260	Water-react. 1
H314	Skin Corr. 1B

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H260	In contact with water releases flammable gases which may ignite spontaneously
H314	Causes severe skin burns and eye damage
EUH014	Reacts violently with water.
Precautionary stateme	nts
P223	Do not allow contact with water.
P231+P232	Handle under inert gas/ Protect from moisture.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and
D 222	easy to do - continue rinsing.
P260	Do not breathe dust.
P264	Do not breathe fume.
Other hazards	
PBT	
This substance is not ide	entified as a PBT substance.

3.0 Composition/information on ingredients

2.3

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3.1 Substances

4. 4.1

4.2

Name		Identifier	%	Classification
Lithium, granules		CAS: 7439-93-2 EC: 231-102-5 REACH: Not applicable	99.0%	H260, Water-react. 1 H314, Skin Corr. 1B
irst aid measures escription of first a	id measures			
Skin contact	Consult a doctor. Dren still on skin. Remove a		nd footwear ir	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng.
Eye contact	Consult a doctor. Tran 15 minutes.	sfer to hospital for special	ist examinatio	on. Bathe the eye with running water for
Ingestion	give half a litre of wate recovery position. If un	r to drink immediately. If ι	inconscious a athing and app	r to drink every 10 minutes. If conscious, and breathing is OK, place in the ply artificial respiration if necessary. h water.
Inhalation	ensure the casualty sit position. If unconsciou	s or lies down. If unconsc s, check for breathing and e ensuring one's own safe	ious and brea apply artificia	le oxygen if available. If conscious, athing is OK, place in the recovery al respiration if necessary. Remove Ig so. Transfer to hospital as soon as
lost important sym	otoms and effects, both a	cute and delayed		
Skin contact	Blistering may occur. F mild irritation at the site	-	occur if treat	ment is not immediate. There may be
Eye contact	Corneal burns may oc	cur. May cause permaner	nt damage. Th	nere may be irritation and redness.
Ingestion	•	. Corrosive burns may ap may be irritation of the thr		he lips. There may be bleeding from the
Inhalation			•	ritation of the throat with a feeling of a burning sensation in the throat.
		ovported after long torm	exposure Im	nmediate effects can be expected after

4.3

Immediate / special treatment

Do not induce vomiting. Eye bathing equipment should be available on the premises.

Fire-fighting measures 5.

5.1 Extinguishing media

Alcohol resistant 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

Corrosive. Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

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

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Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Eliminate all sources of ignition. 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

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. Do not use equipment in clean-up procedure which may produce sparks.

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. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. 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 lighting and electrical equipment are not a source of ignition. 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	Silver
Odour	No data available.
Melting point/Freezing point	180 °C
Boiling point/initial boiling point/boiling range	1342 °C
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.
pH	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 at room temperature. 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.

No data available. No data available.

No data available.

No data available.

0.534

^{10.4} Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

No data available.

b) Skin corrosion/irritation Skin corrosion/irritation (Category 1B)

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 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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mild irritation at the site of contact.

Skin contact

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NCES	www.glentham.com		
Blistering may occur. Progressive ulceration	n will occur if treatment is not immediate. There may be		

	mild irritation at the	e site of contact.					
Eye contact	Corneal burns may	y occur. May cause perma	anent damage. There may l	be irritation and redness.			
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. There may be irritation of the throat.						
Inhalation	halation Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.						
Delayed / immediate effects		n be expected after long-i re. There may be bleeding		effects can be expected after			
Other information	No data available.						
Ecological information	n						
Toxicity							
No data available.							
Persistence and degra	adability						
Biodegradable.							
Bioaccumulative pote	ntial						
No bioaccumulation po	otential.						
Mobility in soil							
Readily absorbed into	soil.						
Results of PBT and v	PvB assessment						
This substance is not i	identified as a PBT s	ubstance.					
Endocrine disrupting	properties						
This substance is not i	identified as having e	endocrine disrupting prope	erties				
Other adverse effects							
No data available.							
Disposal consideratio	ns						
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.							
Transport information	I						
ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number							
UN1415	UN1415	UN1415	UN1415	UN1415			
14.2. UN proper shipping	name						
LITHIUM	LITHIUM	Lithium	LITHIUM	LITHIUM			

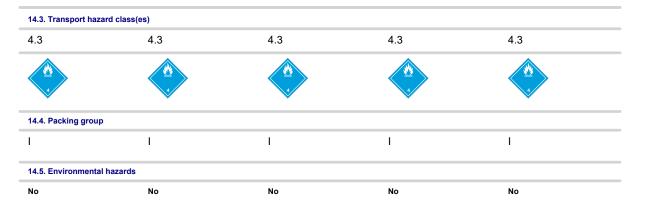
Transport document description UN1415 LITHIUM, UN1415 LITHIUM, UN1415 LITHIUM, UN1415 LITHIUM, UN1415 Lithium, 4.3, 4.3, I 4.3, I L 4.3, I 4.3, I

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15. Regulatory information

15.1	Safety, health and environmental 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						
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
H260	In contact with water releases flammable gases which may ignite spontaneously
H314	Causes severe skin burns and eye damage
Abbreviations Fu	II 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.