GX5814 v2.0



Safety Data Sheet

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	According to REACH	HRegulations (EC) 1907/2006 and (EU) 2020/878
1.	Identification of the	substance/mixture and of the company/undertaking
1.1	Product identifier	
	Product code	: GX5814
	Product name	: Selenium Granules 2-4 mm, 99.999%
	CAS number	: 7782-49-2
	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 u	uses of the substance or mixture and uses advised against
	PC21: Laboratory ch	nemicals.
1.3	Dotails of the suppli	or of the sefety data sheet

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

Emergency telephone number 1.4

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

Hazards identification 2.

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

	• • •
H301	Acute Tox. 3
H331	Acute Tox. 3
H373	STOT RE 2
H413	Aquatic Chronic 4

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H413	May cause long lasting harmful effects to aquatic life
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER or doctor/
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P264	Do not breathe fume.
Other hazards	

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

2.3

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3.1 Substances

4.

4.2

Name		Identifier	%	Classification	
Selenium Granules 2-4 mm, 99.999%		CAS: 7782-49-2 EC: REACH: Not applicable	99.999%	H301, Acute Tox. 3 H331, Acute Tox. 3 H373, STOT RE 2 H413, Aquatic Chronic 4	
irst aid measures					
escription of first a	id 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. Transfer to hospital if there are burns or symptoms of poisoning.				
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. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. 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. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.				
lost important sym	otoms and effects, both a	cute and delayed			
Skin contact		•		occur at the site of contact. There may edness or whiteness of the skin in the	
Eye contact	The eyes may water p	ofusely. There may be in	ritation and red	lness. There may be severe pain.	
Ingestion	Convulsions may occur. Nausea and stomach pain may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.				
		lungs can occur causing	• •	nilar to those of ingestion. Convulsions	
Inhalation	may occur. Nausea an of tightness in the ches		onsciousness.	be irritation of the throat with a feeling There may be shortness of breath with	

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

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. Toxic.

5.3 Advice for fire-fighters

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

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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

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. Absorb into dry earth or sand.

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. The floor of the storage room must be impermeable to prevent the escape of liquids. 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. The floor of the storage room must be impermeable to prevent the escape of liquids. Ensure there is sufficient ventilation of the area.
Respiratory protection	Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Impermeable gloves. Protective gloves.
Eye protection	Safety glasses with side-shields. Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.
Environmental	The floor of the storage room must be impermeable to prevent the escape of liquids.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
Colour
Odour
Melting point/Freezing point
Boiling point/initial boiling point/boiling range
Flammability
Lower/Upper explosion limit

Solid Grey No data available. 220.9 °C 685 °C Non flammable No data available.

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Flash Point
Auto-ignition temperature
Decomposition temperature
pH
Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

No data available. No data available. No data available. No data available. 3.774 "g/L @ 21.2 °C No data available. No data available. 4.800 No data available. No data available.

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.

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

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 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.
- STOT-repeated exposure
 Specific target organ toxicity, repeated exposure (Category 2)
- Aspiration hazardNo data available.

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11.2 Symptoms / routes of exposure

Skin contact		kin may be fatal. Irritation c at the site of contact. There						
Eye contact	The eyes may water profu	usely. There may be irritati	ion and redness. There m	ay be severe pain.				
Ingestion	Ingestion Convulsions may occur. Nausea and stomach pain may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.							
Inhalation	may occur. Nausea and s of tightness in the chest.	ngs can occur causing syr stomach pain may occur. T There may be loss of cons e throat. There may be vor	here may be irritation of t ciousness. There may be	the throat with a feeling				
Delayed / immediate effects		mmediate effects can be e There may be loss of con		exposure. Nausea and				
Other information	No data available.							
Ecological informatio	n							
Toxicity								
No data available.								
Persistence and degra	adability							
Not biodegradable.								
Bioaccumulative pote	ntial							
Bioaccumulation poter	ntial.							
Mobility in soil								
Readily absorbed into	soil.							
Results of PBT and vPvB assessment								
This substance is not	identified as a PBT substand	ce.						
Endocrine disrupting	properties							
This substance is not	identified as having endocri	ne disrupting properties						
Other adverse effects								
No data available.								
Disposal consideration	ns							
Waste treatment meth	ods							
Disposal operations								
Transfer to a suitable	container and arrange for co	ollection by specialised dis	posal company.					
NB								
The user's attention is	drawn to the possible existe	ence of regional or nationa	al regulations regarding di	sposal.				
Transport information	Transport information							
ADR	IMDG	ΙΑΤΑ	ADN	RID				
14.1. UN number								
UN3288	UN3288	UN3288	UN3288	UN3288				
14.2. UN proper shipping	name							
TOXIC SOLID, INORGANIC, N.O.S	TOXIC SOLID, . INORGANIC, N.O.S.	Toxic solid, inorganic, n.o.s.	TOXIC SOLID, INORGANIC, N.O.S.	TOXIC SOLID, INORGANIC, N.O.S.				

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Transport of	document	description
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I ransport document descrip	tion					
UN3288 TOXIC SOLID, INORGANIC, N.O.S. (SELENIUM GRANULES 2-4 MM, 99.999%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (SELENIUM GRANULES 2-4 MM, 99.999%), 6.1, III	UN3288 Toxic solid, inorganic, n.o.s. (Selenium Granules 2-4 mm, 99.999%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (SELENIUM GRANULES 2-4 MM, 99.999%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (SELENIUM GRANULES 2-4 MM, 99.999%), 6.1, III		
14.3. Transport hazard class(es)						
6.1	6.1	6.1	6.1	6.1		
6	6	6	6	6		
14.4. Packing group						

14.5. Environmental hazards				
14.5. Environmental hazards	No	No	No	No

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.

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

in otatomont i un					
H301	Toxic if swallowed				
H331	Toxic if inhaled				
H373	May cause damage to organs through prolonged or repeated exposure				
H413	May cause long lasting harmful effects to aquatic life				
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				

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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
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
STOT	Specific Target Organ Toxicity
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.

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