GX7885 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	: GX7885
Product name	: Zinc selenide, 99.999%
CAS number	: 1315-09-9
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 a	ccording to (EC) 1272/2008
H301	Acute Tox. 3
H331	Acute Tox. 3
H373	STOT RE 2
H400	Aquatic Acute 1

#### H410 2.2 Label elements

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

Aquatic Chronic 1

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
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
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/
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
Zinc selenide, 99.999%	CAS: 1315-09-9 EC: REACH: Not applicable	99.999%	H301, Acute Tox. 3 H331, Acute Tox. 3 H373, STOT RE 2 H400, Aquatic Acute 1 H410, Aquatic Chronic 1

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	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	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	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. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

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

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	The eyes may water profusely. There may be severe pain.
Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.

#### 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.

#### 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.

6. Accidental release measures

5.2

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#### 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.

#### 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. Ensure there is exhaust 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.		
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.		
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields.		
Skin protection	Protective clothing.		

#### 9. Physical and chemical properties

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

Physical state	Solid
Colour	Yellow
Odour	No data available.
Melting point/Freezing point	1515 °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.

#### <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

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

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Skin contact		kin may be fatal. Irritation of of the skin in the area of e		e site of contact. There may		
Eye contact	The eyes may water pro	fusely. There may be sever	re pain.			
Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.					
Inhalation		e loss of consciousness. The		e of ingestion. Convulsions s of breath with a burning		
Delayed / immediate effects	Convulsions may occur. loss of consciousness.	Immediate effects can be e	expected after short-te	rm exposure. There may be		
Other information	No data available.					
Ecological information	1					
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 vF	vB assessment					
This substance is not i	dentified as a PBT substar	nce.				
Endocrine disrupting	properties					
This substance is not identified as having endocrine disrupting properties						
Other adverse effects						
No data available.						
Disposal consideratio	ns					
Waste treatment meth	ods					
Disposal operations						
Transfer to a suitable container and arrange for collection by specialised disposal company.						
NB	drawn to the possible exis	tence of regional or nationa	al regulations regarding	disposal		
The user's allendor is	drawn to the possible exis	tence of regional of flationa		y uisposai.		
Transport information						
ADR	IMDG	ΙΑΤΑ	ADN	RID		
ADR 14.1. UN number	IMDG	ΙΑΤΑ	ADN	RID		
	IMDG UN3283	UN3283	ADN UN3283	RID UN3283		
14.1. UN number	UN3283					

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Transport document descript	ion					
UN3283 SELENIUM COMPOUND, SOLID, N.O.S. (ZINC SELENIDE, 99.999%), 6.1, II	UN3283 SELENIUM COMPOUND, SOLID, N.O.S. (ZINC SELENIDE, 99.999%), 6.1, II	UN3283 Selenium compound, solid, n.o.s. (Zinc selenide, 99.999%), 6.1, II	UN3283 SELENIUM COMPOUND, SOLID, N.O.S. (ZINC SELENIDE, 99.999%), 6.1, II	UN3283 SELENIUM COMPOUND, SOLID, N.O.S. (ZINC SELENIDE, 99.999%), 6.1, II		
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						
II	II	II	II	II		
14.5. Environmental hazards						
No	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**

H301	Toxic if swallowed
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

#### **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

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit
STEL VOC	5
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.

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