GP9482 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	:	GP9482
Product name	:	Calcitriol
CAS number	:	32222-06-3
EINECS	:	250-963-8
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 CLP according to (EC) 1272/2008

H300	Acute Tox. 1
H310	Acute Tox. 1
H330	Acute Tox. 1
H361	Repr. 2

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H361	Suspected of damaging fertility or the unborn child
Precautionary stateme	ints
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P302+P350	IF ON SKIN: Gently wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
Other hazards	

PBT

2.3

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3.0 3.1

4.

4.2

Substances						
Name		Identifier	%	Classification		
Calcitriol		CAS: 32222-06-3 EC: 250-963-8 REACH: Not applicable	97.0%	H300, Acute Tox. 1 H310, Acute Tox. 1 H330, Acute Tox. 1 H361, Repr. 2		
First aid measure	S					
Description of fire	st aid measures					
Skin contact	still on skin. Remove		and footwear i	r for 10 minutes or longer if substa mmediately unless stuck to skin. ing.	nce is	
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. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor.					
Most important sy	mptoms 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 mild irritation 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	The eyes may water profusely. There may be irritation and redness. There may be severe pain.				
Ingestion		Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.				
Inhalation	may occur. There m	ay be irritation of the throat	with a feeling	imilar to those of ingestion. Convu of tightness in the chest. There m h a burning sensation in the throat	ay be	

 Delayed / immediate
 Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate

 effects
 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.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

In combustion emits toxic fumes. Toxic.

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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

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately. 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

Alert the neighbourhood to the presence of fumes or gas. 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. 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 exhaust ventilation of the area. 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	Ensure eye bath is to hand. Safety glasses with side-shields. 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.

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Melting point/Freezing point Boiling point/initial boiling point/boiling range Flammability Lower/Upper explosion limit	113 °C No data a No data a No data a
Flash Point	No data a
Auto-ignition temperature	No data a
Decomposition temperature	No data a
рН	No data a
Kinematic viscosity	No data a
Solubility	No data a
Partition coefficient n-octanol/water	No data a
Vapour pressure	No data a
Density/relative density	No data a
Relative vapour pressure	No data a
Particle characteristics	No data a

available. 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

Flames. Hot surfaces. Heat.

10.5 Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. **Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity a) 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** Reproductive toxicity (Category 2)
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure



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No data available.

j) Aspiration hazard

No data available.

11.2 Symptoms / routes of exposure

	Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be mild irritation 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 irritation and redness. There may be severe pain.
	Ingestion	Convulsions may occur. There may be irritation of the throat. 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 irritation of the throat with a feeling of tightness in the chest. 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. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.
	Other information	No data available.
2.	Ecological information	on la
2.1	Toxicity	
	No data available.	
.2	Persistence and deg	radability
	Biodegradable.	
.3	Bioaccumulative pote	ential
	No bioaccumulation p	potential.
.4	Mobility in soil	
	Readily absorbed into	o soil.
2.5	Results of PBT and v	/PvB assessment
	This substance is not	t identified as a PBT substance.
.6	Endocrine disrupting	J properties
	This substance is not	t identified as having endocrine disrupting properties
.7	Other adverse effects	S
	No data available.	
3.	Disposal consideration	ons
.1	Waste treatment met	hods
	Disposal operations	
	Transfer to a suitable NB	container and arrange for collection by specialised disposal company.
	The user's attention is	s drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID		
14.1. UN number						
UN2811	UN2811	UN2811	UN2811	UN2811		

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14.5. Environmental hazards				
I	1	1	I	I
14.4. Packing group				
6	6	6		6
6.1	6.1	6.1	6.1	6.1
14.3. Transport hazard class	(es)			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (CALCITRIOL), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (CALCITRIOL), 6.1, I	UN2811 Toxic solid, organic, n.o.s. (Calcitriol), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (CALCITRIOL), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (CALCITRIOL), 6.1, I
Transport document descrip				
ORGANIC, N.O.S.	ORGANIC, N.O.S.	n.o.s.	ORGANIC, N.O.S.	ORGANIC, N.O.S.
TOXIC SOLID.	TOXIC SOLID.	Toxic solid, organic,	TOXIC SOLID.	TOXIC SOLID.

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
 No data available.

 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 Fu	ull Texts
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H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H361	Suspected of damaging fertility or the unborn child

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
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number

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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.