GK4364 v3.0



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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	: GK4364
Product name	: Barium chloride dihydrate
CAS number	: 10326-27-9
EINECS	: 233-788-1
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

H301	Acute Tox. 3
H332	Acute Tox, 4

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H332	Harmful if inhaled
Precautionary statem	nents
P261	Avoid breathing dust.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Other hazards	

2.3 Other nazards

PBT

This substance is not identified as a PBT substance.

Composition/information on ingredients 3.0

3.1 Substances

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4. 4.1

4.2

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Name		Identifier	%	Classification
Barium chloride	dihydrate	CAS: 10326-27-9 EC: 233-788-1 REACH: Not applicable	99.0%	H301, Acute Tox. 3 H332, Acute Tox. 4
irst aid measure	S			
escription of firs	at 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. Transfer to hospital as soon as possible. Remove casualty from exposure ensuring one's own safety whilst doing so.			
lost 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 redness or whiteness of the skin in the area of exposure.			

Ingestion	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

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions

5.2

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

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	113 °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.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.

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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.

3.860

No data available.

No data available.

^{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.
- i) STOT-repeated exposure No data available.

j) Aspiration hazard

No data available.

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 redness or whiteness of the skin in the area of exposure.

Eye contact

The eyes may water profusely. There may be severe pain.

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Ingestion		cur. There may be loss of cons oat. There may be vomiting.	sciousness. There n	nay be soreness and redness			
Inhalation	may occur. There may	he lungs can occur causing sy ay be loss of consciousness.		hose of ingestion. Convulsions ness of breath with a burning			
Delayed / immediate effects	Convulsions may oco loss of consciousnes		expected after shor	t-term exposure. There may be			
Other information	No data available.						
Information on other hazards							
Endocrine disrupting properties							
This product does not	contain known or susp	ected endocrine disruptors ac	cording to REACH of	or relevant EU Regulations.			
Other information							
No additional informat	ion						
Ecological informatio	n						
Toxicity							
No data available.							
Persistence and degr	adability						
Biodegradable.							
Bioaccumulative pote	ential						
No bioaccumulation p	otential.						
Mobility in soil							
Readily absorbed into	soil.						
Results of PBT and vi	PvB assessment						
This substance is not	identified as a PBT sub	ostance.					
Endocrine disrupting	properties						
This substance is not	identified as having end	docrine disrupting properties					
Other adverse effects	i						
No data available.							
Disposal consideration	ons						
Waste treatment meth	lods						
Disposal operations							
	container and arrange	for collection by specialised di	sposal company.				
NB	drawn to the needbla	evistance of regional or nation	al regulations roger	ding disposal			
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							
UN1564	UN1564	UN1564	UN1564	UN1564			
14.2. UN proper shipping	name						
BARIUM	BARIUM	Barium compound,	BARIUM	BARIUM			

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Transport document description						
UN1564 BARIUM COMPOUND, N.O.S. (BARIUM CHLORIDE DIHYDRATE), 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						
Ш	III	Ш	III	III		
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) 2020/878.

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
H332	Harmful if inhaled

Abbreviations Full Texts

Spicviations	
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) 2020/878.

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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