GK1477 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	: GK1477
Product name	: Bismuth subnitrate
CAS number	: 1304-85-4
EINECS	: 215-136-8
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

H272	Ox. Sol. 2
H319	Eve Irr. 2A

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H272	May intensify fire: oxidizer
H319	Causes serious eye irritation
Precautionary statements	S
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P221	Take any precaution to avoid mixing with combustibles/
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
Other hazards	
PBT	

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

2.3

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4. 4.1

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Name		Identifier	%	Classification
			/0	endomoulion
Bismuth subnitrate	9	CAS: 1304-85-4 EC: 215-136-8 REACH: Not applicable	79.0%	H272, Ox. Sol. 2 H319, Eye Irr. 2A
First aid measures				
Description of first	aid measures			
Skin contact	Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.			

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. Wash out mouth with water.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact	There may be mild irritation at the site of contact.
Eye contact	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat.
Inhalation	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

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

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol or polymer 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

In combustion emits toxic fumes. Oxidising.

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. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Remove all incompatible materials as outlined in section 10 of SDS.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

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Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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. Avoid incompatible materials and conditions - see section 10 of SDS. 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	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	White
Odour	No data available.
Melting point/Freezing point	500 °C
Boiling point/initial boiling point/boiling range	No data available.
Flammability	Non flammable
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	900.7 mg/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.
Other information	

9.2 Other information

No data available.

10. Stability and reactivity

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10.1	Reactivity	
	Stable under recomme	ended transport or storage conditions.
10.2	Chemical stability	
	Stable under normal co	onditions.
10.3	Possibility of hazardo	us reactions
	Hazardous reactions	
	Decomposition may oc transport or storage co	ccur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal anditions.
10.4	Conditions to avoid	
	Heat.	
10.5	Incompatible materials	5
	Materials to avoid Carbon dioxide. Organ	ic materials. Strong acids. Strong oxidising agents.
11.	Toxicological informat	tion
11.1	Information on toxicol	ogical effects
a)	Acute toxicity No data available.	
b)	Skin corrosion/irritatio	on
	No data available.	
c)	Serious eye damage/ir Serious eye damage/e	ritation ye irritation (Category 2A)
d)	Respiratory or skin se No data available.	nsitisation
e)	Germ cell mutagenicit	
0,	No data available.	y
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity No data available.	
h)	STOT-single exposure No data available.	
i)	STOT-repeated exposition of the state of the	ure
j)	Aspiration hazard	
11.2	No data available.	
11.2	Symptoms / routes of	-
	Skin contact	There may be mild irritation at the site of contact.
	Eye contact	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
	Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat.
	Inhalation	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.
	Other information	No data available.
12.	Ecological information	1

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12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	Biodegradable.
12.3	Bioaccumulative potential
	No bioaccumulation potential.
12.4	Mobility in soil
	Readily absorbed into soil.
12.5	Results of PBT and vPvB assessment
	This substance is not identified as a PBT substance.
12.6	Endocrine disrupting properties
	This substance is not identified as having endocrine disrupting properties
12.7	Other adverse effects
	No data available.

13. Disposal considerations

13.1 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.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1477	UN1477	UN1477	UN1477	UN1477
14.2. UN proper shipping nan	10			
NITRATES, INORGANIC, N.O.S.	NITRATES, INORGANIC, N.O.S.	Nitrates, inorganic, n.o.s.	NITRATES, INORGANIC, N.O.S.	NITRATES, INORGANIC, N.O.S.
Transport document descript	ion			
UN1477 NITRATES, INORGANIC, N.O.S. (BISMUTH SUBNITRATE), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (BISMUTH SUBNITRATE), 5.1, II	UN1477 Nitrates, inorganic, n.o.s. (Bismuth subnitrate), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (BISMUTH SUBNITRATE), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (BISMUTH SUBNITRATE), 5.1, II
14.3. Transport hazard class(es)			
5.1	5.1	5.1	5.1	5.1
51	8	5.	51	51
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
No	No	No	No	No

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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
 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 Full Texts	
H272	May intensify fire: oxidizer
H319	Causes serious eye irritation
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
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 Subcutaneous
SC	
SDS STEL	Safety Data Sheet
VOC	Short Term Exposure Limit
vOC vPvB	Volatile Organic Compounds Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits
VVLL	

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.