GK7296 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	: GK7296
Product name	: Zinc sulfate heptahydrate
CAS number	: 7446-20-0
EINECS	: 231-793-3
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

H302	Acute Tox. 4
H318	Eye Dam. 1
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary stateme	nts
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
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 sulfate heptahydrate	CAS: 7446-20-0 EC: 231-793-3 REACH: Not applicable	98%	H302, Acute Tox. 4 H318, Eye Dam. 1 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. Wash immediately with plenty of soap and water.
Eye contact	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. 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.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. There may be irritation and redness. There may be pain and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be difficulty swallowing. There may be irritation of the throat. 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. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.

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

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

Corrosive. In combustion emits toxic fumes.

5.3 Advice for fire-fighters



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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. 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.

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 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

Control parameters

8.1

Workplace exposure limits

No workplace exposure limit control parameters set

8.2 Exposure controls

Engineering measures	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	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.

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	100 °C
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
Lower/Upper explosion limit	No data available.

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Flash Point	No da
Auto-ignition temperature	No da
Decomposition temperature	No da
pH	No da
Kinematic viscosity	No da
Solubility	No da
Partition coefficient n-octanol/water	No da
Vapour pressure	No da
Density/relative density	1.970
Relative vapour pressure	No da
Particle characteristics	No da
Other information	

No data available. 1.970 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 Serious eye damage/eye irritation (Category 1)

- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicityNo data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.
- J) Aspiration hazardNo data available.

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11.2 Symptoms / routes of exposure

-,				
Skin contact	Blistering may occumile mild irritation at the		vill occur if treatment is n	ot immediate. There may be
Eye contact	Corneal burns may There may be pain	occur. May cause permar and redness.	ent damage. There may	be irritation and redness.
Ingestion	occur. There may b	be bleeding from the mouth	or nose. There may be	lausea and stomach pain may difficulty swallowing. There may nouth and throat. There may be
Inhalation	may cause coughir the throat with a fe	ng or wheezing. Nausea ar	nd stomach pain may occ est. There may be shortn	hose of ingestion. Exposure cur. There may be irritation of ess of breath with a burning
Delayed / immediate effects		can be expected after shor ding from the mouth or nos		and stomach pain may occur.
Other information	No data available.			
Ecological information	on			
Toxicity				
No data available.				
Persistence and deg	radability			
Not biodegradable.				
Bioaccumulative pot	ential			
Bioaccumulation pote	ential.			
Mobility in soil				
Readily absorbed inte	o soil.			
Results of PBT and v	vPvB assessment			
This substance is not	t identified as a PBT su	ubstance.		
Endocrine disrupting	g properties			
This substance is not	t identified as having e	ndocrine disrupting proper	ties	
Other adverse effect	s			
No data available.				
Disposal considerati	ions			
Waste treatment met	thods			
Disposal operations				
	e container and arrange	e for collection by specialis	ed disposal company.	
NB The user's attention i	s drawn to the possible	e existence of regional or n	ational regulations regar	ding disposal.
Transport informatio	n			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				

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14.2. UN proper shipping nar	ne			
ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document descript	tion			
UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULFATE HEPTAHYDRATE), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULFATE HEPTAHYDRATE), 9, III	UN3077 Environmentally hazardous substance, solid, n.o.s. (Zinc sulfate heptahydrate), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULFATE HEPTAHYDRATE), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULFATE HEPTAHYDRATE), 9, III
14.3. Transport hazard class	(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
× ×	× ×	₹¥2	¥2	× ¥2
Dangerous for the Environment: yes	Dangerous for the Environment: yes	Dangerous for the Environment: yes	Dangerous for the Environment: yes	Dangerous for the Environment: yes
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 2019/1021:	No data available.
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

H302	Harmful if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Abbreviations Full Texts

15.

15.2

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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
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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