GK0112 v2.0

# Glentham

### 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	:	GK0112
Product name	:	Copper(II) sulfate pentahydrate
CAS number	:	7758-99-8
EINECS	:	231-847-6
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
H315	Skin Irr. 2
H319	Eye Irr. 2A
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

#### 2.2 Label elements

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

#### Pictograms



Signal words	Warning
Hazard statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
P302+P352	IF ON SKIN: wash with plenty of water.
P264	Do not breathe fume.
Other hazards	

PBT

2.3

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#### This substance is not identified as a PBT substance.

3.0	Com	position	/informat	tion on	ingredients
0.0	00111	00011011	mornia		ingreatents

#### 3.1 Substances

Name	Identifier	%	Classification
Copper(II) sulfate pentahydrate	CAS: 7758-99-8 EC: 231-847-6 REACH: Not applicable	98.0%	H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A H400, Aquatic Acute 1 H410, Aquatic Chronic 1

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	Consult a doctor. 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. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. 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	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	There may be irritation and redness at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	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 vomiting.
Delayed / immediate effects	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

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.

#### 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

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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. 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

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. The floor of the storage room must be impermeable to prevent the escape of liquids. 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	The floor of the storage room must be impermeable to prevent the escape of liquids. 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. Safety glasses.
Skin protection	Protective clothing.
Environmental	The floor of the storage room must be impermeable to prevent the escape of liquids.

#### 9. Physical and chemical properties

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

Physical state	Solid
Colour	Blue
Odour	No data available.
Melting point/Freezing point	110 °C (decomp)
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.
pH	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. No data available. No data available.

No data available. No data available.

2.286

#### <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

#### <sup>11.1</sup> Information on toxicological effects

#### a) Acute toxicity

No data available.

#### b) Skin corrosion/irritation Skin corrosion/irritation (Category 2)

#### c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 2A)

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.
- Aspiration hazardNo data available.

#### 11.2 Symptoms / routes of exposure

Skin contact

There may be irritation and redness at the site of contact.

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Eye contact	The eyes may water profusely. There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat There may be vomiting.
Inhalation	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 vomiting.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occu
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	/PvB assessment
This substance is not	identified as a PBT substance.
Endocrine disrupting	j properties
This substance is not	identified as having endocrine disrupting properties
Other adverse effect	S
No data available.	
Disposal considerati	ons
Waste treatment met	hods
Disposal operations	
Transfor to a quitable	container and arrange for collection by encoiclined dispect company

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
ADR	IMDG		ADN	RID
14.1. UN number				
UN3077	UN3077	UN3077	UN3077	UN3077
14.2. UN proper shipping name				
ENVIRONMENTALL	ENVIRONMENTALL	Environmentally	ENVIRONMENTALL	ENVIRONMENTALL
Y HAZARDOUS	Y HAZARDOUS	hazardous	Y HAZARDOUS	Y HAZARDOUS
SUBSTANCE,	SUBSTANCE,	substance, solid,	SUBSTANCE,	SUBSTANCE,
SOLID, N.O.S.	SOLID, N.O.S.	n.o.s.	SOLID, N.O.S.	SOLID, N.O.S.

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Transport document descript	tion			
UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE PENTAHYDRATE), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE PENTAHYDRATE), 9, III	UN3077 Environmentally hazardous substance, solid, n.o.s. (Copper(II) sulfate pentahydrate), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE PENTAHYDRATE), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE PENTAHYDRATE), 9, III
14.3. Transport hazard class	(es)			
9	9	9	9	9
14.4. Packing group				
III	Ш	Ш	III	III
14.5. Environmental hazards				
¥2	× ×	× ×	¥2	<b>H</b>
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				
afety, health and environment	tal regulations/legislation specif	fic for the substance or mixture		
This Safety Data Sheet is Regulation (EU) 2020/78		with Commission Regulat	ion (EC) 1907/2006, ame	nded by Commission
uthorisations/Restrictions				
authorisation: Regulation (EC) 1907 on the market and use	/2006, REACH, Annex XV e of certain dangerous sub		ufacture, placing No data	
<b>e</b> ( )	/2009 on substances that 2004 on persistent organic	deplete the ozone layer: pollutants, amended by (		available. available.

#### 15.2 Chemical safety assessment

**15.** 15.1

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
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
	5
H410	Very toxic to aquatic life with long lasting effects

#### Abbreviations Full Texts

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ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL STOT	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Maritime Dangerous Goods Code Intraperitoneal Intravascular 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	Short Term Exposure Limit
VOC vPvB	Volatile Organic Compounds 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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