GX2222 v2.0



## Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878						
		ification of the substance/mixture and of the company/undertaking					
1.1	Product identifier						
	Product code :						
	Product name :	: Copper(II) oxide Nanopowder, 99,9 %					
	,	: solid, substance - nanoform					
	REACH	<ul> <li>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.</li> </ul>					
.2	Relevant identified uses of the substance or mixture and uses advised against						
	PC21: Laboratory chemicals.						
.3	Details of the supplier of	f 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					
.4	Emergency telephone nu	umber					
	Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number						
	Hazards identification						
.1	Classification of the substance or mixture						
	Classification under CLP according to (EC) 1272/2008						
	H400 Ac	quatic Acute 1					
	H410 Ac	quatic Chronic 1					
2.2	Label elements						
	Label elements under CLP according to (EC) 1272/2008						
	Pictograms	GHS09					
	Signal words Hazard statements	Warning					
	H400 H410	Very toxic to aquatic life Very toxic to aquatic life with long lasting effects					
	Precautionary statements						
	P273 P391	Avoid release to the environment. Collect spillage.					
.3	Other hazards						
	PBT						
	This substance is not identified as a PBT substance.						
3.0	Composition/information	n on ingredients					

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Name	Identifier	%	Classification
Copper(II) oxide Nanopowder, 99,9 %	CAS: 1317-38-0 EC: REACH: Not applicable	99.9%	H400, Aquatic Acute 1 H410, Aquatic Chronic 1

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	Wash immediately with plenty of soap and water.
Eye contact	Bathe the eye with running water for 15 minutes.
Ingestion	Wash out mouth with water.
Inhalation	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	There may be irritation and redness.
Ingestion	There may be irritation of the throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

No data available.

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

#### 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

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.

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7.	Handling and storage	3				
7.1	Precautions for safe handling					
	Handling requirements					
	Avoid the formation or spread of dust in the air.					
7.2	Conditions for safe s	torage, including any incom	patibilities			
	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/pe	ersonal protection				
8.1	Control parameters					
	Workplace exposure limits					
	No workplace exposure limit control parameters set					
8.2	Exposure controls					
	Engineering measures	No data available.				
	Respiratory protection	Respiratory protective device with particle filter.				
	Hand protection	Protective gloves.				
	Eye protection	Ensure eye bath is to hand. Safety glasses.				
	Skin protection	Protective clothing.				
9.	Physical and chemica	al properties				
ə.1	Information on basic physical and chemical properties					
	Physical state		Solid			
	Colour		Black			
	Odour		No data available.			
	Melting point/Freezing point		1326 °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 ter	nperature	No data available.			
	pH		No data available.			
	Kinematic viscosity	/	No data available.			
	Solubility		No data available.			

No data available.SolubilityNo data available.Partition coefficient n-octanol/waterNo data available.Vapour pressureNo data available.Density/relative density6.315Relative vapour pressureNo data available.Particle characteristicsNo data available.

#### 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.

#### <sup>10.3</sup> Possibility of hazardous reactions

Hazardous reactions

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Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

- <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
- 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 hazardNo data available.

#### 11.2 Symptoms / routes of exposure

Skin contact	There may be mild irritation at the site of contact.			
Eye contact	There may be irritation and redness.			
Ingestion	There may be irritation of the throat.			
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.			
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.			
Other information	No data available.			
Ecological information				

12.1 Toxicity

12.

No data available.

#### <sup>12.2</sup> Persistence and degradability

Not biodegradable.

#### 12.3 Bioaccumulative potential

Bioaccumulation potential.

12.4 Mobility in soil

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	No data available.							
12.5								
	This substance is not ide	ntified as a PBT substand	æ.					
12.6	Endocrine disrupting pro	operties						
	This substance is not ide	ntified as having endocrin	e disrupting properties					
12.7	Other adverse effects							
	No data available.							
13.	Disposal considerations							
13.1	Waste treatment method	s						
	Disposal operations							
	Transfer to a suitable cor	ntainer and arrange for co	llection by specialised dis	sposal company.				
	NB							
	The user's attention is dra	awn to the possible existe	ence of regional or nation	al regulations regarding di	sposal.			
14.								
14.	Transport information							
	ADR	IMDG	ΙΑΤΑ	ADN	RID			
	14.1. UN number							
	UN3077	UN3077	UN3077	UN3077	UN3077			
	14.2. UN proper shipping nar	ne						
	ENVIRONMENTALL	ENVIRONMENTALL	Environmentally	ENVIRONMENTALL	ENVIRONMENTALL			
	Y HAZARDOUS SUBSTANCE,	Y HAZARDOUS SUBSTANCE,	hazardous substance, solid,	Y HAZARDOUS SUBSTANCE,	Y HAZARDOUS SUBSTANCE,			
	SOLID, N.O.S.	SOLID, N.O.S.	n.o.s.	SOLID, N.O.S.	SOLID, N.O.S.			
	Transport document descrip	tion						
	UN3077 ENVIRONM	UN3077 ENVIRONM	UN3077	UN3077 ENVIRONM				
	ENTALLY	ENTALLY	Environmentally	ENTALLY	UN3077 ENVIRONM ENTALLY			
	HAZARDOUS	HAZARDOUS	hazardous	HAZARDOUS	HAZARDOUS			
	SUBSTANCE, SOLID, N.O.S.	SUBSTANCE, SOLID, N.O.S.	substance, solid, n.o.s. (Copper(II)	SUBSTANCE, SOLID, N.O.S.	SUBSTANCE, SOLID, N.O.S.			
	(COPPER(II) OXIDE	(COPPER(II) OXIDE	oxide Nanopowder,	(COPPER(II) OXIDE	(COPPER(II) OXIDE			
	NANOPOWDER,	NANOPOWDER,	99,9 %), 9, III	NANOPOWDER,	NANOPOWDER,			
	99,9 %), 9, III	99,9 %), 9, III		99,9 %), 9, III	99,9 %), 9, III			
	14.3. Transport hazard class(	(es)						
	9	9	9	9	9			
		<b>A</b>	A	<b>A</b>				
				alle,	AUX -			
	9	9	9	9	9			
	14.4. Packing group							
			111	III				
	14.5. Environmental hazards							
	N. Contraction of the second s	× N	J.	-	J.			
	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the			
	Environment: yes	Environment: yes	Environment: yes	Environment: yes	Environment: yes			

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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				
H400	Very toxic to aquatic life			
H410	Very toxic to aquatic life with long lasting effects			
Abbreviations Ful	Il Texts			
Abbreviations Ful 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	I Texts 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 Lethal Dose 50% Lowest 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			
	•			
SC	Subcutaneous			
SDS	Safety Data Sheet			
STEL VOC	Short Term Exposure Limit Volatile Organic Compounds			
vPvB	Volatile Organic Compounds			
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.