

Safety Data Sheet

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	According to REACT	Regulations (EC) 1907/2006 and (EU) 2020/878					
•	Identification of the	ubstance/mixture and of the company/undertaking					
1	Product identifier						
.2	Product code Product name CAS number Physical form REACH Relevant identified u	 GX9201 Copper Powder Cu-OF atomized >=10 micron, d50 = 15 micron, 99.95% 7440-50-8 solid, substance 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. 					
	PC21: Laboratory ch	-					
3	•	er 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					
.4	Emergency telephon	ie number					
	Emergency telephon number	e : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)					
2.	Hazards identificatio	n					
1	Classification of the	substance or mixture					
	Classification under CLP	according to (EC) 1272/2008					
	H228 H319	Flam. Sol. 2 Eye Irr. 2A					
	H335	STOT SE 3					
	H336	STOT SE 3					
	H411	Aquatic Chronic 2					
.2	Label elements						
	Label elements under CLP according to (EC) 1272/2008						
	Pictograms	GHS02 GHS07 GHS09					
	Signal words Hazard statements	Warning					
	H228	Flammable solid					
	H319	Causes serious eye irritation					
	H335 H336	May cause respiratory irritation May cause drowsiness or dizziness					
	H411	Toxic to aquatic life with long lasting effects					
	Precautionary statements						
	P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.					
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.					
	P280 P305+P351+P338	Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.					
	P405 P241	Store locked up. Use explosion-proof electrical equipment.					

2.3 Other hazards

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This substance is not identified as a PBT substance.

Composition/information on ingredients						
Substances						
Name		Identifier	%	Classification		
Copper Powder Ci d50 = 15 micron, 9	u-OF atomized >=10 micron, 99.95%	CAS: 7440-50-8 EC: REACH: Not applicable	99.95%	H228, Flam. Sol. 2 H319, Eye Irr. 2A H335, STOT SE 3 H336, STOT SE 3 H411, Aquatic Chronic 2		
First aid measures						
Description of first	aid measures					
Skin contact	still on skin. Remove all co	ontaminated clothes a	nd footwear in	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng. Wash immediately with plenty of		
Eye contact	Consult a doctor. Transfei 15 minutes.	to hospital for specia	list examinatio	n. Bathe the eye with running water for		
Ingestion	unconscious and breathin	g is OK, place in the r	ecovery position	alf a litre of water to drink immediately. on. If unconscious, check for breathing al as soon as possible. Wash out mouth		
Inhalation	ensure the casualty sits of position. If unconscious, c	r lies down. If unconso heck for breathing and nsuring one's own safe	ious and brea d apply artificia	e oxygen if available. If conscious, thing is OK, place in the recovery al respiration if necessary. Remove g so. Transfer to hospital as soon as		
Most important sym	ptoms and effects, both acute	e and delayed				
Skin contact		•		/ occur at the site of contact. There ma or whiteness of the skin in the area of		
Eye contact				y. The vision may become blurred. edness. There may be severe pain.		
Ingestion		•	•	r. There may be irritation of the throat. and redness of the mouth and throat.		
Inhalation	may occur. Drowsiness or may be irritation of the thr	mental confusion ma oat with a feeling of tig	y occur. Nause htness in the	nilar to those of ingestion. Convulsions ea and stomach pain may occur. There chest. There may be loss of ing sensation in the throat. There may		
Delayed / immediate effects		•	•	r long-term exposure. Drowsiness or ted after short-term exposure. Nausea		

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. Eye bathing equipment should be available on the premises.

5. Fire-fighting measures

5.1 Extinguishing media

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Alcohol resistant 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

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture. 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

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Eliminate all sources of ignition. 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. Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

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 exhaust ventilation of the area. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. 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	limit

Substance (CAS)	Control Parameter	Value	Notes	Source
Copper fume (as Cu) (7440-50-8)	Long-term Exposure Limit (mg m ⁻³)	0.2		UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	1		
	Short-term Exposure Limit (mg m ⁻³)	2		

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Copper and compound dust and mists (as Cu)	3	0.2	UK HSE EH40/2005
(7440-50-8)	Long-term Exposure Limit (mg m ⁻³)	1	
	Short-term Exposure Limit (mg m ⁻³)	2	2
Exposure controls			
Engineering measures	Ensure lighting and electrical equipment are i ventilation of the area. Ensure there is sufficie	0	
Respiratory protection	Particle filter class P1 (EN143). Respiratory p	protective device	with particle filter. Solf contained
	breathing apparatus must be available in cas		with particle litter. Sell- contained
	()		with particle liner. Self- contained
Hand protection	breathing apparatus must be available in cas	e of emergency.	

9. Physical and chemical properties

8.2

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Orange
Odour	No data available.
Melting point/Freezing point	1057 - 1059 °C
Boiling point/initial boiling point/boiling range	2595 °C
Flammability	Flammable solid
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.
Density/relative density	8.940
Relative vapour pressure	No data available.
Particle characteristics	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 at room temperature. 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

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

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Acute toxicity Copper fume (as Cu) LD50 Mouse (IP): 3500 ug/kg Copper and compounds: dust and mists (as Cu) LD50 Mouse (IP): 3500 ug/kg Skin corrosion/irritation No data available. Serious eye damage/irritation (Category 2A) Respiratory or skin sensitisation No data available. Germ cell mutagenicity No data available. Caricogenicity No data available. Reproductive toxicity No data available. Striot carge organ toxicity, single exposure; Respiratory tract irritation (Category 3) STOT-repeated exposure No data available. Acute toxicity. No data available. Striot carget organ toxicity, single exposure; Respiratory tract irritation (Category 3) STOT-repeated exposure No data available. Aspiration hazard No data available.		ological informa		
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Other information No data available.			mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea	

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Biodegradable.



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Bioaccumulative potenti	al			
No bioaccumulation pote	ntial.			
Mobility in soil				
Readily absorbed into so	il.			
Results of PBT and vPvB	3 assessment			
This substance is not ide	ntified as a PBT substand	e.		
Endocrine disrupting pro	operties			
This substance is not ide	ntified as having endocrin	e disrupting properties		
Other adverse effects				
No data available.				
Disposal considerations				
Waste treatment method	ls			
Disposal operations				
Transfer to a suitable cor	ntainer and arrange for co	llection by specialised dis	posal company.	
NB				
The user's attention is dr	awn to the possible existe	ence of regional or nationa	I regulations regarding dis	sposal.
Transport information				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
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15. Regulatory information

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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.

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

H228	Flammable solid
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Abbreviations Full Texts

~'	bieviations i un	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
	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.

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