GX0368 v3.0



### Safety Data Sheet

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

1.	Identification of the	e substance/mixture and of the company/undertaking
1.1	Product identifier	
	Product code	: GX0368
	Product name	: Copper Powder max. 150 micron, spherical, 99.99%
	CAS number	: 7440-50-8
	Physical form	: solid, substance
	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>
1.2	Relevant identified	l uses of the substance or mixture and uses advised against
	PC21: Laboratory of	chemicals.
1.3	Details of the supp	plier 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 telepho	one number
	Emergency telephonumber	one : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
2.	Hazards identificat	tion
2.1	Classification of th	ne substance or mixture
	Classification under CL	P according to (EC) 1272/2008
	H228	Flam. Sol. 1
	H400	Aquatic Acute 1
	H412	Aquatic Chronic 3

#### 2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H228	Flammable solid
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
Precautionary stateme	ents
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P273	Avoid release to the environment.
P241	Use explosion-proof electrical equipment.
Other hazards	

PBT

2.3

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

3.1 Substances

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**4**. 4.1

4.2

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Name		Identifier	%	Classification
Copper Powder max. 99.99%	150 micron, spherical,	CAS: 7440-50-8 EC: REACH: Not applicable	99.99%	H228, Flam. Sol. 1 H400, Aquatic Acute 1 H412, Aquatic Chronic 3
irst aid measures				
escription of first aid	measures			
Skin contact		contaminated clothes a	•	for 10 minutes or longer if substance is nmediately unless stuck to skin. Wash
Eye contact	Consult a doctor. Bathe	the eye with running wa	ater for 15 min	utes.
Ingestion	Consult a doctor. Do not Wash out mouth with wa	0	scious, give h	alf a litre of water to drink immediately.
Inhalation	Consult a doctor. Remov	e casualty from exposi	ure ensuring o	ne's own safety whilst doing so.
lost important sympto	oms and effects, both acu	te and delayed		
Skin contact	There may be mild irritat	ion at the site of contac	t.	
Eye contact	There may be irritation a	nd redness.		
Ingestion	There may be irritation o	f the throat.		
Inhalation	There may be irritation o	f the throat with a feelir	ig of tightness	in the chest.
Delayed / immediate effects	Delayed effects can be e short-term exposure.	expected after long-term	n exposure. Im	mediate effects can be expected after

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

Immediate / special treatment

Do not induce vomiting.

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. 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.

#### 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

Eliminate all sources of ignition. 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.

Methods and material for containment and cleaning up

Clean-up procedures

6.3

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Transfer to a closable, labelled salvage container for disposal by an appropriate method. 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 the formation or spread of dust in the air. 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 limits

Substance (CAS)	Control Parameter	Value	Notes	Source
Copper fume (as Cu) (7440-50-8)	Long-term Exposure Limit (mg m <sup>-3</sup> )	0.2		UK HSE EH40/2005
	Long-term Exposure Limit (mg m <sup>-3</sup> )	1		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	2		
Copper and compounds: dust and mists (as Cu)	Long-term Exposure Limit (mg m <sup>-3</sup> )	0.2		UK HSE EH40/2005
(7440-50-8)	Long-term Exposure Limit (mg m <sup>-3</sup> )	1		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	2		

#### 8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is sufficient ventilation of the area.
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.

Solid

Red

No data available.

1057 - 1059 °C 2595 °C

Flammable solid

No data available.

#### 9. Physical and chemical properties

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

Physical state
Colour
Odour
Melting point/Freezing point
Boiling point/initial boiling point/boiling range
Flammability
Lower/Upper explosion limit

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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.
ou : (	

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### <sup>10.1</sup> Reactivity

Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

Stable at room temperature. Stable under normal conditions.

#### <sup>10.3</sup> 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.

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

#### 11.1 Information on toxicological effects

#### a) 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

#### 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

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Aspiration hazard
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j)

#### No data available.

#### 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	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure.
	Other information	No data available.
	Information on other h	azards
1	Endocrine disrupting pro	operties
	This product does not	contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
2	Other information	
	No additional information	on
	Ecological information	1
	Toxicity	
	No data available.	
	Persistence and degra	dability
	Not biodegradable.	
	Bioaccumulative poter	ntial
	Bioaccumulation poten	tial.
	Mobility in soil	
	Readily absorbed into	soil.
	Results of PBT and vP	vB assessment
	This substance is not i	dentified as a PBT substance.
	Endocrine disrupting	properties
	This substance is not i	dentified as having endocrine disrupting properties
	Other adverse effects	
	No data available.	
	Disposal consideration	ns
	Waste treatment method	ods
	Disposal operations	
		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.
	Transport information	

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
UN3089	UN3089	UN3089	UN3089	UN3089	

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METAL POWDER,	METAL POWDER,	Metal powder,	METAL POWDER,	METAL POWDER,
FLAMMABLE, N.O.S.	FLAMMABLE, N.O.S.	flammable, n.o.s.	FLAMMABLE, N.O.S.	FLAMMABLE, N.O.S.
Transport document descrip	tion			
UN3089 METAL	UN3089 METAL	UN3089 Metal	UN3089 METAL	UN3089 METAL
POWDER,	POWDER,	powder, flammable,	POWDER,	POWDER,
FLAMMABLE, N.O.S.	FLAMMABLE, N.O.S.	n.o.s. (Copper	FLAMMABLE, N.O.S.	FLAMMABLE, N.O.S.
(COPPER POWDER	(COPPER POWDER	Powder max. 150	(COPPER POWDER	(COPPER POWDER
MAX. 150 MICRON,	MAX. 150 MICRON,	micron, spherical,	MAX. 150 MICRON,	MAX. 150 MICRON,
	SPHERICAL, 99.99%), 4.1, II	99.99%), 4.1, II	SPHERICAL, 99.99%), 4.1, II	SPHERICAL, 99.99%), 4.1, II
99.99%), 4.1, II	99.99 <i>%)</i> , 4.1, 11		99.99%), 4.1, II	99.99 <i>%)</i> , 4.1, 11
14.3. Transport hazard class	(es)			
4.1	4.1	4.1	4.1	4.1
		N. A.	W.A.	Ny An
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards	i			
			Na	
egulatory information	No Ital regulations/legislation specia			No
egulatory information fety, health and environmen his Safety Data Sheet i	tal regulations/legislation specif s prepared in accordance	ic for the substance or mixture		
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**15.** 15.1

15.2

16.

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL STOT	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular 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
STOT	Specific Target Organ Toxicity
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) 2020/878.

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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