

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Copper

Revision 2 Revision date 2014-03-21

Revision date 2014-00-21			
SECTION 1: Identification of	the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	Copper		
CAS No.	7440-50-8		
EC No.	231-159-6		
1.2. Relevant identified uses of	the substance or mixture and uses advised against		
Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU24] Scientific research and development; [PC21] Laboratory chemicals; [PROC15] Use as laboratory reagent; [ERC8b] Wide dispersive indoor use of reactive substances in open systems;		
1.3. Details of the supplier of the	e safety data sheet		
Company	Elemental Microanalysis Ltd		
Address	Hameldown Road Okehampton Business Park Exeter Road Okehampton Devon EX20 1UB		
VA/-1-	United Kingdom		
Web	www.microanalysis.co.uk		
Telephone	+44 (0) 1837 54446		
Fax	+44 (0) 1837 54544		
Email	info@microanalysis.co.uk		
Email address of the competent person			
1.4. Emergency telephone num	ber		
Emergency telephone number	+44 (0) 7990 767375		
	(24 hours)		

Emergency telephone number	+44 (0) 7990 767375
	(24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification -	Xi; R36/37/38	
67/548/EEC	Symbols: Xi: Irritant.	
Main hazards	Irritating to eyes, respiratory system and skin.	
2.1.2. Classification - EC	Aquatic Chronic 4: H413;	
1272/2008		
2.2. Label elements		
Hazard Statement	Aguatic Chronic 4: H413 - May cause long lasting harmful effects to aguatic life.	

Hazard Statement	Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
Precautionary Statement:	P273 - Avoid release to the environment.
Prevention	
Precautionary Statement:	P501 - Dispose of contents/container to a licensed waste disposal company
Disposal	



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2.3. Of	her ha	azards
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Other hazards Not determined.

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	
Copper		7440-50-8	231-159-6			Xi; R36/37/38	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Copper		7440-50-8	231-159-6			Aquatic Chronic 4: H413;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, check for breathing and apply artificial respiration if necessary. Seek medical attention.		
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water for 15 minutes. Seek medical attention.		
Skin contact	Wash with soap and water.		
Ingestion	Never give anything by mouth to an unconscious person. If swallowed, rinse mouth with water (only if the person is conscious). DO NOT INDUCE VOMITING. Seek medical attention.		
4.2. Most important symptoms and effects, both acute and delayed			

Inhalation	MAY BE HARMFUL IF SWALLOWED. May cause irritation to respiratory system.		
Eye contact	May be harmful by ingestion, inhalation or if absorbed through the skin. May cause irritation to		
	eyes.		
Skin contact	May cause irritation to skin.		
Ingestion	Not determined.		

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

Inhalation	Not determined.
Eye contact	Not determined.
Skin contact	Not determined.
Ingestion	Not determined.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical. Water spray.

5.2. Special hazards arising from the substance or mixture

Not determined.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Appropriate local exhaust ventilation is required. Avoid contact with eyes and skin. Avoid formation of dust. Avoid raising dust. Do not breathe dust. Do not breathe gas/fumes/vapour/spray. Evacuate personnel to a safe area. Use appropriate personal protective equipment.

6.2. Environmental precautions



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6.2. Environmental	precautions
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Do not allow product to enter drains.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Sweep up. Keep container tightly closed and in a well-ventilated place. Keep container tightly closed in a cool place.

6.4. Reference to other sections

SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Appropriate local exhaust ventilation is required. Wear suitable protective equipment. Wash hands after handling the product. Do not breathe dust or vapour.

7.2. Conditions for safe storage, including any incompatibilities

Not determined.

7.3. Specific end use(s)

Not determined

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Copper	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2

8.2. Exposure controls









Eye / face protection

Skin protection -Handprotection Wear eye/face protection. May cause irritation to skin and eyes.

Wear suitable gloves. May cause irritation to skin.

Skin protection - Other

Wear suitable protective clothing.

Respiratory protection Suitable respiratory equipment. May cause respiratory irritation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



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9.1. Information on basic physical and chemical properties

State Granules. Colour Amber Odour Odourless Partition coefficient Not determined Autoignition temperature Not determined Viscosity Not determined **Explosive** Not determined Oxidising Not determined Not determined pН Melting point 1085 °C Freezing Point Not determined Boiling point 2567 °C Flash point Not determined **Evaporation rate** Not determined Flammability limits Not determined Vapour Flammability Not determined Vapour pressure Not determined Vapour density Not determined Relative density 9.1 (Water = 1 @ 20 °C) **Fat Solubility** Not determined Slightly soluble in water Solubility

9.2. Other information

Conductivity
Surface tension
Gas group
Benzene Content
Lead content
VOC (Volatile organic compounds)
Not determined
Not determined
Not determined
Not determined
Not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Not determined.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Not determined.

10.5. Incompatible materials

Strong acids. Strong oxidising agents. Halogens, Acid chlorides.

10.6. Hazardous decomposition products

Not determined.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

May cause respiratory irritation. May cause severe irritation to eyes and skin. May be harmful by ingestion, inhalation or if absorbed through the skin.

11.1.4. Toxicological Information



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Not determined

SECTION 12: Ecological information

12.1. Toxicity

Copper Daphnia EC50/48h: 0.04 mg/l	Fish LC50/96h: 0.1500 mg/l
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12.2. Persistence and degradability

BCF 108.

12.3. Bioaccumulative potential

Cyprinus Carp - 40d.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

May cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact a licensed waste disposal company.

SECTION 14: Transport information

14.6. Special precautions for user

Refer to sections 1.2, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12 & 13.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not determined.

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Other information

Revision This document differs from the previous version in the following areas:.

- 2 Precautionary Statement: Disposal.
- 4 Inhalation.



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Other information	
	4 - Eye contact.
	4 - Skin contact.
	11 - Acute toxicity.
	14 - 14.6. Special precautions for user.
	14 - 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.
	15 - 15.2. Chemical safety assessment.
Text of risk phrases in Section	R36/37/38 - Irritating to eyes, respiratory system and skin.
3	
Text of Hazard Statements in	Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
Section 3	
Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

