

according to Regulation (EC) No 1907/2006, Article 31

Version: 2 Revision Date: 06-Mar-15 SDS No: R31050

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Copper Reduction Reagent, Wires, 0.5 x 4mm, OEA

Catalogue no:R31050SDS reference no:R31050Brand:OEA Labs

EC index no(s):

REACH no: The annual tonnage does not require registration.

CAS no(s): Cu [7440-50-8]

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Elemental analysis scientific instrumentation. Primary use for removal of excess oxygen from carrier

gas analytical streams in nitrogen, carbon, hydrogen and sulphur configured applications. Not for

pharmaceutical, domestic or other uses.

1.3 Details of the supplier of the safety data sheet

Company name: OEA Laboratories Limited

Unit C2 Florence Road Business Park Kelly Bray, Callington, Cornwall PL17 8EX, United Kingdom

 Telephone:
 +44 (0)1579 384174

 Fax:
 +44 (0)1579 384174

 Email:
 sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

2.2 Labelling elements according to Regulation (EC) No 1272/2008

Pictogram(s):

Signal word:

Hazard statement(s):

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Precautionary statement(s):

Restricted to professional users.

2.2 Other hazards

SECTION 3. Composition/information of ingredients

3.1 Substances

Synonyms:

Formula: Cu
Molecular weight: 63.55g/mol

Components:

Copper Concentration: 100%

CAS No 7440-50-8, -, Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008, ;

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled:

If breathed in, move person to fresh air. If not breathing give artificial respiration.

In case of skin contact:

Wash off with plenty of soap and water.

Printed 09/07/2017 16:09:32 Page 1 of 5



according to Regulation (EC) No 1907/2006, Article 31

Version: 2
Revision Date: 06-Mar-15
SDS No: R31050

In case of eye contact:

Flush eyes with water as a precaution.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arrising from the substance or mixture

No data available.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Air sensitive.

7.3 Specific end uses

No data available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

Copper

CAS No 7440-50-8, Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008; STEL, 2mg/m3, UK, EH40 WEL; TWA, 1mg/m3, UK, EH40 WEL

8.2 Exposure controls

Appropriate engineering controls:

General industrial hygiene practice.

Personal protective equipment:

Eye/face protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and

Printed 09/07/2017 16:09:32 Page 2 of 5



according to Regulation (EC) No 1907/2006, Article 31

Version: 2
Revision Date: 06-Mar-15
SDS No: R31050

the standard EN 374 derived from it.

Body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental protection:

No data available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Wires or granules

Colour: Golden metallic, light red when tarnished

Odour: No data available
Odour threshold: No data available

pH: No data available

Melting point: 1,083.4 °C

Boiling point: 2,567 °C

Flash point: No data available

Flammability solid/gas: No data available
Upper/lower No data available

flammability or explosive limits:

Water solubility: No data available
Autoignition temp: No data available
Decomp temperature: No data available
Explosive properties: No data available

Oxidising properties: No data available
Other safety information

No data available

SECTION 10. Stability and reactivity

10.1 Reactivity

92

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, Strong oxidizing agents, Acid chlorides, Halogens

10.6 Hazardous decompostion products

No data available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitisation:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as

Printed 09/07/2017 16:09:32 Page 3 of 5



according to Regulation (EC) No 1907/2006, Article 31

Version: 2
Revision Date: 06-Mar-15
SDS No: R31050

	probable, possible or co	ntirmed human carcinogen by IARC.	
	Reproductive toxicity:		
	No data available		
	Specific target organ toxicity - single exposure:		
	No data available		
	Specific target organ toxicity - repeated exposure:		
	No data available		
	Aspiration hazard:		
	No data available		
	Potential health effects	Potential health effects - inhalation:	
	May be harmful if inhale	d. May cause respiratory tract irritation.	
	Potential health effects	Potential health effects - ingestion:	
	May be harmful if swallo	wed.	
	Potential health effects	s - skin:	
		May be harmful if absorbed through skin. May cause skin irritation.	
	Potential health effects	s - eyes:	
	May cause eye irritation.	·	
	Signs and symptoms of	of exposure:	
	pulse, and kidney and liv convulsions, paralysis, a is typified by hepatic cirr the cornea as exemplified poisoning has lead to he	nptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak e, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, zulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning pified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in cornea as exemplified by humans with Wilson's disease. It has also been reported that copper oning has lead to hemolytic anemia and accelerates arteriosclerosis.	
		dditional information:	
	RTECS: GL5325000		
SEC.	ΓΙΟΝ 12. Ecologica	Linformation	
SEC	TION 12. Ecologica	i illiorination	
12.1	Toxicity		
	Toxicity to fish:	No data available.	
	Toxicity to daphnia and other aquatic invertibrates:	No data available.	
	Toxicity to algae:	No data available.	
	Toxicity to bacteria:	No data available.	
12.2	Persistance and deg	gradability	
	No data available.		
12.3	Bioaccumulative potential		
	No data available.		
12.4	Mobility in soil		
12.7	No data available.		
12.5	Results of PBT and vPvB assessment		
12.5			
	No data available.		
12.6	Other adverse effects		
	No data available.		
SECT	ΓΙΟΝ 13. Disposal α	considerations	
13.1	Waste treatment methods		
	Product:		
	Offer surplus and non-recyclable solutions to a licensed disposal company.		
	Contaminated packaging:		
	Dispose of as unused product.		
	Dispose of as unused or	oduct.	

SECTION 14. Transport information

14.1 UN number

ADR/RID/IATA/IMDG: Not dangerous goods

Printed 09/07/2017 16:09:32 Page 4 of 5



according to Regulation (EC) No 1907/2006, Article 31

Version: 2
Revision Date: 06-Mar-15
SDS No: R31050

14.2 UN proper shipping name

ADR/RID/IATA/IMDG: Not dangerous goods

14.3 Transport hazard class(es)

Not dangerous goods

14.4 Packaging group

ADR/RID/IATA/IMDG: Not dangerous goods

14.5 Environmental hazards

ADR/RID/IATA/IMDG:

ADR/RID/IATA/IMDG: Not dangerous goods

14.6 Special precautions for user

Not dangerous goods

14.7 Shipping quantities

ADR LQ maximum: Not dangerous goods ADR EQ code: Not dangerous goods ADR EQ IP/pkg: Not dangerous goods IATA LQ PInstruction: Not dangerous goods IATA LQ IP/pkg: Not dangerous goods IATA EQ code: Not dangerous goods IATA EQ IP/pkg: Not dangerous goods De minimus: Not dangerous goods

SECTION 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No data available.

15.2 Chemical safety assessment

No data available.

SECTION 16 Other information

The above information is believed to be correct but does not proport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety pecautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See www.oealabs.com for terms and conditions of

Printed 09/07/2017 16:09:32 Page 5 of 5