Vickers Laboratories Ltd - Safety Data Sheet

1000

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021
Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1000

Product Name COPPER (I) OXIDE pure

CAS Number 1317-39-1

REACH Registration No 01-2119513794-36-XXXX

Molecular Formula Cu₂ 0 =143.09

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral)

Acute toxicity, category 4 (inhalation)

H302: Harmful if swallowed.

H332: Harmful if inhaled.

Serious eye damage/irritation, category 1

H318: Causes serious eye damage/irritation.

Serious eye damage/irritation, category 1 H318: Causes serious eye damage. Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements Harmful if swallowed. Harmful if inhaled. Causes serious eye damage. Very toxic to aquatic life with long lasting

Precautionary Statements Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cuprous oxide	1317-39-1	215-270-7	01-2119513794-36-XXXX	<95%	Acute Tox. 4 (O), Acute Tox. 4 (I), Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION. Skin

Remove from exposure. If breathing stops or shows signs of failing, apply artificial resuscitation. If breathing is difficult, give oxygen. OBTAIN MEDICAL ATTENTION. Inhalation

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Hazards

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Wear goggles, respirator, rubber boots and heavy rubber gloves. Avoid breathing dust-wear respiratory protective

equipment.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Sweep up, place in a bag and hold for waste disposal. Minor Spillage Sweep up, place in a bag and hold for waste disposal.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	ncentration Workplace E			xposure Limits		
			Long Term (8	hr TWA)	Short Term 15min period)			
Cuprous oxide	1317-39-1	<95%	-	-	-	-		

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection Wear NIOSH/MSHA-approved respirator.

Hand Protection Wear rubber gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Red crystalline powder. Odour No specific odour. Not applicable pН **Boiling Point** Not available Melting Point >400 °C Flash Point Not applicable Not applicable Upper Flammable Limit Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No. Vapour Pressure Not applicable Relative Density 5.870 Water Solubility Not specified.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

No data available. **10.1** Reactivity

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

Protect from moisture.

10.4 Conditions to Avoid 10.5 Incompatable Materials Strong oxidising agents.

Hazardous Decomposition None.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Contact with the solid or dust will be irritating to the eyes. Eyes Skin Contact with the solid or dust may irritating to the skin.

LD50 Skin >2000 mg/Kg Rat

Ingestion Toxic if swallowed. May cause damage to central nervous system and kidneys.

LD50 Oral 928-2000 mg/Kg Rat

Inhalation Inhalation of dust may produce irritation of the eyes and respiratory tract. The powder may be harmful.

LD50 Inhalation >200 mg/L Rat TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

None identified. Reproductive Effects

Section 12. Ecological

12.1 Toxicity Not biodegradable: highly water contaminating. Known to be toxic to aquatic organisms: no data available.

LC50 Algal Not available

LC50 Crustacea 92.6 µg/L Daphnia magna (48 hours) LC50 Fish 227 µg/L Fathead Minnow (96 hours)

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of to a licensed land fill site. Dissolve or mix the material with a combustible solvent. Burn in a chemical

incinerator equipped with afterburners and scrubbers.

Dispose of to a licensed land fill site. Dissolve or mix the material with a combustible solvent. Burn in a chemical Contaminated Packaging

incinerator equipped with afterburners and scrubbers.

Section 14. Transport Information

14.1 UN Number 3077

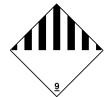
14.2 Proper Shipping Name Environmentally hazardous substance, solid,

N.O.S. (Cuprous Oxide)

14.3 Transport classes

UN classification 9
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 90
Tunnel Restriction Code E

14.4 Packing Group III





14.5 Environment hazards Marine pollutant.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1;

Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H302, H332, H318, H410

Harmful if swallowed. Harmful if inhaled. Causes serious eye damage. Very toxic to aquatic life with long lasting

effects.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 2.1 (Supercedes revision 2.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

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