Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021
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Section 1. Identification

1.1 Product Identifier 1831

Product Name COPPER (II) SULPHATE 5H2O A.R.

CAS Number 7758-99-8

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula Cuso, .5H, 0 =249.68

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

VICKERS

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4hr) 113

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral)

Serious eye damage/irritation, category 1

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. Very toxic to aquatic life with long lasting effects. Causes serious eye damage.

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. Do NOT

induce vomiting.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cupric sulphate	7758-99-8	231-847-6	01-2119520566-40-XXXX	>99%	Acute Tox. 4 (O),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. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting. 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. Water spray, alcohol resistant foam, dry

powder or carbon dioxide.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

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 Avoid breathing dust.

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6.2 Environmental precautions

Environmental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. Do not allow

large quantities to enter the environment.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

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	Workplace Exposure Limits				
L				Long Term (8hr TWA)		Short Term 15min period)		
	Cupric sulphate	7758-99-8	>99%	-	-	<u>-</u>	-	

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

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

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 Pale blue crystals.

Odour No specific odour.
pH 4 @ 20°C solution.

Boiling Point Not available Melting Point 110°C

Flash Point
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Not applicable
Not applicable
Not applicable
Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure 7.3 mmHg @ 25°C

Relative Density 2.2860

Water Solubility 320 g/L (20°C) Very soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity None known at present.

10.2 Chemical Stability Stable under normal conditions Hygroscopic; protect from moisture.

10.3 Possibility of hazardous None identified.

reactions

10.4 Conditions to Avoid Excessive heating.10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire. Sulphur oxides. Copper oxide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

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

Skin Contact with the solid or solution may be irritating to the skin.

LD50 Skin Not available

Ingestion Ingestion of large amounts will produce vomiting, gastric pain, dizziness, convulsions, shock, coma and possibly

death. As little as 10g has been reported as causing death although victims have recovered after ingesting much larger amounts Copper salts tend to cause vomiting and for this reason poisoning by ingestion is rare. Chronic

poisoning may give rise to kidney damage, enlargement of the liver and jaundice.

LD50 Oral 690mg/kg Rat

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified

Section 12. Ecological

12.1 Toxicity Copper salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse

effects in the aquatic environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and The complex may persist for some time in the environment.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil Keep material out of sewers, storm drains, surface waters and soil.

12.5 Results of PBT & vPvB Assessment not required.

assessment

degradability

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water. Do not dispose of as domestic waste.

Section 14. Transport Information

14.1 UN Number

14.2 Proper Shipping Name Environmentally hazardous substance, solid,

N.O.S. (Cupric Sulphate)

14.3 Transport classes

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



Single packs and combination packages containing inner packs of up to 5L or 5Kg are excluded from regulation (ADR 2.2.9.1.10, IMDG code 2.10.3).

14.4 Packing Group

14.5 Environment hazards Marine pollutant.

Special precautions for No special precautions required.

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); Serious eye damage/irritation, category 1; Hazard to aquatic environment, category

1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







H302, H410, H318 Hazard Statements

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

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330, P331

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. Do NOT induce vomiting.

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

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