# Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.0 Revision date: 19 April 2021 (Replaces revision 1.1 of 16 April 2021) Date printed: 12 August 2023

## **Section 1. Identification**

1.1 Product Identifier 0995

Product Name COPPER (II) NITRATE 3H2O pure

CAS Number 10031-43-3

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 Cu(NO<sub>3</sub>)<sub>2</sub>.3H<sub>2</sub>O =241.60

#### 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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(Have this document to hand)

# Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Oxidising solid, category 2 H272: May intensify fire; oxidizer.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. 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 2 H411: 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 May intensify fire; oxidizer. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting

effects.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid release to the environment. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. **Precautionary Statements** 

Remove contact lenses if present and easy to do and continue rinsing.

### **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cupric nitrate	10031-43-	221-838-5		>99%	Ox. Sol. 2,Skin Corr. 1B,Eye Dam. 1,Aquatic Acute
_	3				1, Aquatic Chronic 2

### Section 4. First Aid

#### 4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists Eyes

OBTAIN MEDICAL ATTENTION.

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

Inhalation Remove from exposure.

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

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

### 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

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

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.

#### 6.2 Environmental precautions

Environmental 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 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

I	Component	CAS No	Concentration	Workplace Exposure Limits				
l				Long Term (8hr TWA)		Short Term 15min period)		
Ī	Cupric nitrate	10031-43-3	>99%	-	1.0 mg/m-3	2.0 ppm	-	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

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

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Hand Protection Wear 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 Pale blue crystals. No specific odour. Odour 4 @ 20°C pН Not available **Boiling Point** 114°C Melting Point Not applicable Flash Point Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No.

Vapour Pressure Not applicable
Relative Density Not available
Water Solubility Very soluble in water.

#### 9.2 Other information

No data available.

### Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid No specific conditions.

**10.5** Incompatable Materials No specific materials to avoid.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Causes severe burns.

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 Not available

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.

LC50 Algal Not available
LC50 Crustacea Not available

LC50 Fish 0.29mg/l Fish (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.

**12.5** Results of PBT & vPvB Assessment not required.

assessment

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.

# **Section 14. Transport Information**

**14.1 UN Number** 1477

**14.2 Proper Shipping Name** Nitrates, inorganic, N.O.S.

14.3 Transport classes

14.5 Environment hazards

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

Marine pollutant.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



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

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

Classification Oxidising solid, category 2; Skin corrosion/irritation, category 1B; Serious eye damage/irritation, category 1; Hazard

to aquatic environment, category 1; Hazard to aquatic environment, category 2

Signal word Danger

Hazard Pictograms







**OXIDIZING** 

Hazard Statements H272, H314+H318, H400+H411

May intensify fire; oxidizer. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting

effects.

Precautionary Statements P210, P273, P302+P352, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid release to the environment. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses if present and easy to do and continue rinsing.

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### 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.

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