# Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.0 (Replaces revision 1.1 of 16 April 2021) Revision date: Date printed: 19 April 2021 03 February 2023

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## Section 1. Identification

1.1	Product Identifier	0995
	Product Name	COPPER (II) NITRATE 3H2O pure
	CAS Number REACH Registration No	10031-43-3 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

1.4

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

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

H272: May intensify fire; oxidizer.H314: Causes severe skin burns and eye damage.H318: Causes serious eye damage.H400: Very toxic to aquatic life.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

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

Precautionary Statements

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

## Section 3. Composition

#### 3.1 Substances

Cupric nitrate10031-43-221-838-5>99%Ox. Sol. 2,Skin Corr. 1B,Eye Dam. 1,Aquatic Acu331,Aquatic Chronic 2	te

## Section 4. First Aid

#### 4.1 Description of first aid measures

 Description of mot and 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. Induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.	
Personal protection for first aiders	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

Extinguishing MediaConsider what other flammable materials are present and act accordingly.Unsuitable MediaNothing 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 SpillageShovel/sweep up into container for removal Wash area down with copious amounts of water.Minor SpillageWash 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 Exposu	re Limits	
			Long Term (8	Bhr TWA)	Short Term 15min	n period)
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

<b>Respiratory Protection</b>	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
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.
Odour	No specific odour.
pH	4 @ 20°C
Boiling Point	Not available
Melting Point	114°C
Flash Point	Not applicable
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.

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#### 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 reactions	No data available.
10.4	Conditions to Avoid	No specific conditions.
10.5	Incompatable Materials	No specific materials to avoid.
10.6	Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

## 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	Assessment not required.
12.6	Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods

### Section 14. Transport Information

14.1	UN Number	1477		
14.2	Proper Shipping Name	Nitrates, inorganic, N.O.S.		
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	5.1 None 2 50 E	OXIDIZING AGENT 5.1	MARINE POLLUTANT
14.4	Packing Group	II		
14.5	Environment hazards	Marine pollutant.		
14.6	Special precautions for user	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	Oxidising solid, category 2; Skin corrosion/irritation, category 1B; Serious eye damage/irritation, category 1; Hazard to aquatic environment, category 2
Signal word	Danger
Hazard Pictograms	
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. Remove contact lenses if present and easy to do and continue rinsing.

#### 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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