

Version 1.1

Issue date 08/09/2024

## SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

### Product Identifier

Product Name	Copper 2 Go
Other Names	Copper Sulphate Pentahydrate
Proper Shipping Name	Sulfuric acid, copper(2+) salt (1:1), pentahydrate
Other means of Identification	None

### Relevant identified uses of the substance or mixture

Relevant identified uses	An oral solution of Copper Sulphate containing 80mg elemental copper per ml. An essential trace element that is used in a number of metabolic processes including growth and reproduction, the immune function and rumen metabolism
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### Details of the supplier of the safety data sheet

Registered company name	Vetpak Limited
Address	249 Bruce Berquist Dr, Te Awamutu 3800.
Telephone	(07) 870 2024
Website	www.vetpak.co.nz
Email	sales@vetpak.co.nz

### Emergency telephone numbers


Association/ Organisation	New Zealand National Poison information centre
Emergency telephone number	0800 764 766 (07) 870 2024 Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays.
Other emergency telephone numbers	New Zealand emergency services 111

## SECTION 2 – HAZARDS IDENTIFICATION

### Hazard Classification:

This product is hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS) Use this product as directed

### Label pictograms

GHS label elements	
Signal Word	<b>WARNING</b>

### Hazard statements

HSNO	Hazard Code	GHS Category	Hazard Statement
6.1E	H 303 / H313 / H333	Category 4	Harmful if swallowed / inhaled or in contact with skin

6.3A	H 315	Category 2	Causes skin irritation.
6.4A	H 319	Category 2	Causes serious eye irritation
6.5B	H 317	Category 1	May cause an allergic skin reaction.
6.9B	H 371	Category 2	Causes damage to organs (liver and kidneys)
9.1B	H 400	Category 2	Very toxic to aquatic life

#### Precautionary statements prevention

P102	Keep out of the reach of children
P103	Read label before use
P261	Avoid breathing mists/vapours/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/eye protection/ face protection

#### Precautionary statement responses

P101	If medical advice is needed have the product container or label on hand
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P321	In case of inhalation Call a POISON CENTER or doctor/physician.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage

#### Precautionary statement storage

P405	Store locked up
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#### Precautionary statement disposal

P501	Disposal should be through a suitably qualified contractor
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### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### Mixtures

CAS Number	% (weight)	Name
7758 – 99 – 8	10 – 30%	Copper Sulphate Pentahydrate
3844 – 45 – 9	< 10%	Blue Dye
7732 – 18 - 5	To 100%	Water



## SECTION 4 – FIRST AID MEASURES

### Description of first aid measures

Eye contact	<p>If this product comes in contact with eyes</p> <ul style="list-style-type: none"> <li>➤ Wash out immediately with fresh running water for several minutes</li> <li>➤ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel</li> <li>➤ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids</li> <li>➤ If eye irritation persists seek medical attention</li> </ul>
Skin contact	<p>If skin or hair contact occurs</p> <ul style="list-style-type: none"> <li>➤ Remove and isolate contaminated clothing and shoes</li> <li>➤ Wash the affected area thoroughly with water and soap</li> <li>➤ If skin irritation or rash occurs get medical advice / attention</li> </ul>
Inhalation	<ul style="list-style-type: none"> <li>➤ Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>➤ If respiratory symptoms persist, get medical advice/attention.</li> <li>➤ Apply resuscitation if victim is not breathing.</li> <li>➤ Administer oxygen if available and breathing is difficult.</li> </ul>
Ingestion	<ul style="list-style-type: none"> <li>➤ If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.</li> <li>➤ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious</li> <li>➤ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>➤ Seek medical advice.</li> </ul>
Advice to the doctor	<p>Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves</p>

## SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	<ul style="list-style-type: none"> <li>➤ Use dry chemical, Carbon dioxide (CO<sub>2</sub>)</li> <li>➤ Water, fog, suitable for the surrounding area</li> </ul>
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Flammability Conditions	<ul style="list-style-type: none"> <li>➤ Not flammable</li> </ul>
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### Advice for fire fighters

Fire fighting	<ul style="list-style-type: none"> <li>➤ Alert fire brigade and tell location and nature of hazard</li> <li>➤ Wear breathing apparatus plus protective gloves in the event of a fire</li> <li>➤ Prevent spillage from entering the waterways or drains</li> <li>➤ Fight the fire from a safe distance and adequate cover</li> </ul>
Fire/explosion hazard	<ul style="list-style-type: none"> <li>➤ Not flammable</li> </ul>
Special fire fighting hazards	<ul style="list-style-type: none"> <li>➤ Contain run off from fire control or dilution water - Runoff may pollute waterways.</li> </ul>
Protection Equipment	<ul style="list-style-type: none"> <li>➤ Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.</li> </ul>



## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Minor spills	<ul style="list-style-type: none"> <li>➤ Clean up all spills immediately.</li> <li>➤ Avoid breathing dusts and contact with skin and eyes.</li> <li>➤ Control personal contact with the substance, by using protective equipment.</li> <li>➤ Wipe up. Place in a suitable, labelled container for waste disposal.</li> </ul>
Major spills	<ul style="list-style-type: none"> <li>➤ Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services.</li> </ul>
Clean Up Procedures	<ul style="list-style-type: none"> <li>➤ Contain and place in sealable containers</li> </ul>
Containment	<ul style="list-style-type: none"> <li>➤ Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.</li> <li>➤ Avoid generating dust</li> </ul>

## SECTION 7 – HANDLING AND STORAGE

### Precautions for safe handling

Safe Handling	<ul style="list-style-type: none"> <li>➤ Read label before use</li> <li>➤ Limit all unnecessary personal contact.</li> <li>➤ Wear protective clothing when risk of exposure occurs.</li> <li>➤ Use in a well-ventilated area.</li> <li>➤ When handling DO NOT eat, drink or smoke.</li> <li>➤ Always wash hands with soap and water after handling.</li> <li>➤ Avoid physical damage to containers. Use good occupational work practice.</li> <li>➤ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Other information	<ul style="list-style-type: none"> <li>➤ Use site signage for large quantities</li> <li>➤ Protect containers from damage and check regularly for leaks</li> <li>➤ Store in accordance with NZS 8409; Management of Agrichemicals.</li> </ul>

### Conditions for safe storage, including any incompatibilities


Suitable container	<ul style="list-style-type: none"> <li>➤ Keep in the original container</li> </ul>
Storage	<ul style="list-style-type: none"> <li>➤ Store in a cool, dry and well-ventilated place, out of direct sunlight.</li> <li>➤ Keep containers tightly closed.</li> <li>➤ Protect against physical damage.</li> <li>➤ Protect from moisture.</li> <li>➤ Keep away from incompatible materials</li> </ul>

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	<p>No exposure limits have been assigned for this product.</p> <p>Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.</p> <p>Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents.</p> <p>The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.</p>
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## Exposure controls

Appropriate engineering controls	<p>A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.</p> <p>Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Always wash hands before smoking, eating, drinking or using the toilet.</p> <p>Wash contaminated clothing and other protective equipment before storage or re-use.</p>
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> <li>➤ Safety glasses with side shields</li> <li>➤ Contact lenses may pose a special hazard soft contact lenses may absorb and concentrate materials.</li> <li>➤ Medical personal should be trained and readily available in the event of chemical exposure; they should begin eye irrigation and remove contact lenses as soon as practicable. Lenses should be removed at the first sign of eye irritation</li> </ul>
Skin protection	Wear general protective gloves e.g. light weight rubber gloves
Hand / feet protection	As above for hands; wear appropriate footwear for the environment
Other protection	<ul style="list-style-type: none"> <li>➤ Overalls</li> <li>➤ PVC Aprons</li> <li>➤ PVC protective gear</li> <li>➤ Eyewash facilities</li> <li>➤ Ensure there is ready access to a safety shower</li> </ul>

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid	Relative density (Water = 1)	Not available
Odour	Olfactory	Auto ignition temperature	Not available
Odour threshold	Not available	Decomposition temperature	Not available
pH	No data	Viscosity	Not available
Melting point (°C)	Not available	Molecular weight (g/mol)	Not available
Boiling point (°C)	Not available	Bulk Density	Not available
Flash point (°C)	Not available	Specific Gravity	Not available
Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not flammable	Volatile component (% vol)	Not volatile

## SECTION 10 – STABILITY AND REACTIVITY

General Information	Stable under normal conditions.
Chemical stability	Stable under normal conditions of use.
Conditions to avoid	None
Hazardous Decomposition	Toxic: Produces copper and sulphur oxides
Hazardous Polymerisation	Hazardous polymerisation will not occur.



## SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Copper Sulphate pentahydrate Acute Toxicity (Oral):- LD50, Rat (male/female): 482 mg/kg bw [OECD Guideline 401] Acute toxicity (Dermal):- LD50, Rat (male/female): >2,000 mg/kg [OECD Guideline 402] Reproductive toxicity (Oral):- NOAEL, Rat: >1,500 ppm [OECD Guideline 416].
Swallowed	Ingestion of this product may irritate the gastrointestinal tract causing nausea and vomiting
Inhalation	No specific disorder or effects are identified. Inhalation of vapor, mist, spray, may cause slight respiratory tract irritation
Eyes	Causes eye irritation
Skin	Repeated or prolonged contact may cause irritation
Carcinogen	Not a known carcinogen
Mutagen	Not a known mutagen
Reproductive Toxicity	Not applicable
Aspiration	Not applicable

## SECTION 12 – ECOLOGICAL INFORMATION

This product is not hazardous to the environment.

Ecotoxicity	Very toxic to aquatic life with long lasting effects
Persistence/Degradability	High persistence in water/soil; High persistence in air.
Bioaccumulation Potential	No data available.
Environmental Impact	No data available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	<ul style="list-style-type: none"><li>➤ Do not allow wash water from cleaning or process equipment to enter drains</li><li>➤ It may be necessary to collect all wash water for treatment before disposal</li><li>➤ In all case disposal to sewer may be subject to local laws and regulations and these should be considered first</li><li>➤ If in doubt contact the responsible authority</li><li>➤ Contact manufacturer for recycling options or consult local or regional waste management authority for disposal</li></ul>
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## SECTION 14 – TRANSPORT INFORMATION

Labels required

NOT Dangerous Goods according to the criteria of the New Zealand Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Marine Pollutant	Yes
HAZCHEM	No data available

Land transport (ADG)

UN Number	No data available
Packing group	III
UN proper shipping name	No data available
Environmental hazard	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate, pentahydrate) product



Transport hazard classes	No data available
Special precautions for user	No data available

Air transport (ICAO-IATA / DGR)

UN Number	No data available
Packing group	III
UN proper shipping name	No data available
Environmental hazard	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate, pentahydrate) product
Transport hazard classes	No data available
Special precautions for user	No data available

Sea transport (IMDG / GGVSee)

UN Number	No data available
Packing group	III
UN proper shipping name	No data available
Environmental hazard	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate, pentahydrate) product
Transport hazard classes	No data available
Special precautions for user	No data available
Marine Pollutant	No data available

## SECTION 15 – REGULATORY INFORMATION

Safety, health and environment regulations / legislation specific for the substance or mixture

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

GHS Code	6.1E, 6.3A,6.4A, 6.5B, 6.9B, 9.1B
National Inventory	Status
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes All ingredients are on the inventory Appears on GRAS (Generally Regarded As Safe) of Ministry of Primary Industries, New Zealand.
Environmental Protection Authority (New Zealand)	Hazardous Substances and New Organisms Amendment Act 2015
Approval Code	None
Signage Trigger	None
Emergency response Trigger	None
Secondary containment	None
Certified Handler	No
Restriction of use	None
Fire Extinguishers	None



## SECTION 16 – OTHER INFORMATION

While Vetpak Limited in good faith has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Vetpak Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

New Zealand National Poison Information Centre: 0800 764 766  
New Zealand Emergency Services: 111  
Vetpak Limited: +64 7 870 2024

### Definitions and abbreviations

PC – TWA	Permissible concentration – time weighted average
PC – STEL	Permissible concentration – short term exposure limit
IARC	International agency for research on cancer
ACGIH	American conference of Government Industrial Hygiene
STEL	Short term exposure limit
TEEL	Temporary emergency exposure limit
IDLH	Immediate dangerous to life or health concentration
OSF	Odour safety factor
NOAEL	No observed adverse effect level
LOAEL	Lowest observed adverse effect level
TLV	Threshold limit value
LOD	Limit of detection
OTV	Odour threshold value
BCF	BioConcentration factors

**END OF SDS**

