

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: YATES FUNGUS FIGHTER COPPER FUNGICIDE

Supplier: Yates, a Division of Orica Australia Pty Ltd

ABN: 004 117 828

Street Address: 1 Gow Street,
Padstow, NSW 2211
Australia

Telephone Number: +61 2 9781 8800

Facsimile: +61 2 9794 9700

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of ASCC; HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Risk Phrases: Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

Safety Phrases: Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

Poisons Schedule: S6 Poison.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: Fungicide for prevention of many fungal diseases on fruit trees, vegetables and ornamentals. Blue/green granules.

Components / CAS Number	Proportion	Risk Phrases
Copper hydroxide 20427-59-2	40%	R22 R37/38 R41
Inerts	to 100%	-
-		

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

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- Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.
- Skin Contact:** If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
- Eye Contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Ingestion:** Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek immediate medical assistance.
- Medical attention and special treatment:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products: Non-combustible material.

Suitable Extinguishing Media: Not combustible, however, if material is involved in a fire use: Media applicable to surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up: Contain - prevent run off into drains and waterways. Collect and seal in properly labelled containers.

7. HANDLING AND STORAGE

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage: Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for spills.

Precautions for safe handling: Keep out of reach of children. Avoid skin and eye contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

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No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Copper dusts & mists (as Cu): 8hr TWA = 1 mg/m³

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Natural ventilation should be adequate under normal use conditions.

Personal Protective Equipment:

No special personal protective equipment required. Always wash hands before smoking, eating, drinking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Granules
Colour:	Blue - Green
Odour:	Characteristic
Solubility:	Dispersible in water.
Specific Gravity:	0.60 kg/L (bulk density)
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Melting Point/Range (°C):	Decomposes

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.

Eye contact: A severe eye irritant. Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin will result in irritation.

Inhalation: Material is irritant to the mucous membranes of the respiratory tract (airways).

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Long Term Effects:

No information available for the product.

Toxicological Data:

No LD50 data available for the product. However, for Copper hydroxide (1):

Oral LD50 (rat): 1000 mg/kg
Dermal LD50 (rabbit): >3160 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways. For COPPER HYDROXIDE

Aquatic toxicity:

Toxic to fish.

96hr LC50 (fathead minnow): 0.023 mg/L (2)

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to local government authority for disposal recommendations.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification: This material is hazardous according to criteria of ASCC; HAZARDOUS SUBSTANCE.

Hazard Category: Xn: Harmful
Xi: Irritant

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Risk Phrase(s): R22: Harmful if swallowed.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.

Safety Phrase(s): S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

Poisons Schedule: S6 Poison.

This product is registered in Australia by the Australian Pesticides & Veterinary Medicines Authority (APVMA).

16. OTHER INFORMATION

(1) 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2004.

(2) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

Reason(s) for Issue:
First Issue Primary MSDS

This material safety data sheet has been prepared by SH&E Shared Services, Orica. This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1. Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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