



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: YATES BLUESTONE COPPER SULPHATE

Recommended Use: Micro nutrient fertiliser and algaecide.

Supplier: Yates New Zealand, a division of DuluxGroup (New Zealand) Pty Ltd
ABN 55 133 404 118
Co. 2355191

Street Address: The Gate Industrial Park,
373 Neilson St, Onehunga
Auckland, New Zealand

Telephone Number: +64 9 636 2800

Facsimile: +64 9 636 2802

Emergency Telephone: CHEMCALL 0800 243 622 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:

Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 6.3 Category A - Substances that are irritating to the skin.
Subclass 6.4 Category A - Substances that are irritating to the eye.
Subclass 6.5 Category B - Substances that are contact sensitisers.
Subclass 6.9 Category B - Substances that are harmful to human target organs or systems.
Subclass 9.1 Category A - Substances that are very ecotoxic in the aquatic environment.
Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Hazard and Precautionary Information:

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to terrestrial vertebrates. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Take off contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. Get medical advice/attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Specific treatment (see First Aid Measures on this Safety Data Sheet). Avoid release to the environment. Collect spillage. In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: YATES BLUESTONE COPPER SULPHATE
Substance No: 000000020599

Issued: 29/03/2010
Version: 2

Safety Data Sheet



Components	CAS Number	Proportion	Risk Phrases
Copper sulfate pentahydrate	7758-99-8	100%	R22, R36/38, R50/53

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

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 a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Non-combustible material.

Precautions for fire fighters and special protective equipment:

Decomposes on heating emitting toxic fumes, including those of oxides of sulfur. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

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

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s):

Copper dusts & mists, as Cu: WES-TWA 1 mg/m³

As published by the New Zealand Occupational Safety and Health Service (OSH).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

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:

Avoid contact with eyes and skin. Do not inhale dust. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing. Wear rubber gloves while handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Crystalline Powder
Colour:	Blue / White
Odour:	Odourless
Solubility:	Soluble in water.
Specific Gravity:	2.28
Vapour Pressure (20 °C):	Nil
Flash Point (°C):	N App
Melting Point/Range (°C):	110

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid dust generation. Avoid contact with foodstuffs.
Incompatible materials:	Incompatible with finely powdered metals , steel , nitromethane , hydrazine , hydroxylamine and magnesium .
Hazardous decomposition products:	Oxides of copper. Oxides of sulfur.
Hazardous reactions:	Contact with magnesium metal can generate flammable hydrogen gas. Will ignite hydroxylamine. Can corrode most ferrous based metals.

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 gastrointestinal irritation.

Eye contact: An eye irritant.

Skin contact: Contact with skin will result in irritation.

Inhalation: Breathing in dust may result in respiratory irritation.

Long Term Effects:

No information available for the product.

Toxicological Data:

Oral LD50 (rat): 300 mg/kg (1)

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

Aquatic toxicity: Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

EC50 algae, 5 days (*Selenastrum capricornutum*): 0.0031 mg/L (1)

48hr EC50 (*Daphnia magna*): 0.18mg/L (1)

96hr LC50 (rainbow trout): 0.032mg/L (1)

Terrestrial toxicity: Toxic to bees. (2)

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to local government authority for disposal recommendations.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

UN No: 3077

Class-primary 9 Miscellaneous Dangerous Goods

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER SULPHATE PENTAHYDRATE)

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

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Class-primary: 9 Miscellaneous Dangerous Goods
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER SULPHATE PENTAHYDRATE)

IMDG EMS Fire: F-A
IMDG EMS Spill: S-F

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 3077
Class-primary: 9 Miscellaneous Dangerous Goods
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER SULPHATE PENTAHYDRATE)

15. REGULATORY INFORMATION

Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:

- Subclass 6.1 Category D - Substances which are acutely toxic.
- Subclass 6.3 Category A - Substances that are irritating to the skin.
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16. OTHER INFORMATION

- (1) HSNO Chemical Classification Information Database (CCID).
- (2) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

Reason(s) for Issue:

5 Yearly Revised Primary MSDS

This safety data sheet has been prepared by SH&E Shared Services.

This SDS 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 DuluxGroup 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 DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup 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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