

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** YATES BLUESTONE COPPER SULPHATE

**Recommended Use:** Micro nutrient fertiliser and algaecide.

**Supplier:** Yates Australia, a division of DuluxGroup (Australia) Pty Ltd  
**ABN:** 67 000 049 427  
**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia  
**Telephone Number:** +61 2 9781 8777  
**Facsimile:** +61 2 9781 8825  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**Risk Phrases:** Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

**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. Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to special instructions safety data sheets.

**Poisons Schedule:** S6 Poison.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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.

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**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

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. Store away from foodstuffs. 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 and breathing in dust.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** 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/m<sup>3</sup>

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As published by the National Occupational Health and Safety Commission.

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:

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

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

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Avoid dust generation. Avoid contact with foodstuffs.
<b>Incompatible materials:</b>	Incompatible with finely powdered metals , steel , nitromethane , hydrazine , hydroxylamine and magnesium .
<b>Hazardous decomposition products:</b>	Oxides of copper. Oxides of sulfur.
<b>Hazardous reactions:</b>	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:

<b>Ingestion:</b>	Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.
<b>Eye contact:</b>	An eye irritant.

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**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 Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**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.

**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)

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

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## 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:** This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

**Hazard Category:** Xn: Harmful  
Xi: Irritant

**Risk Phrase(s):** R22: Harmful if swallowed.  
R36/38: Irritating to eyes and skin.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S61: Avoid release to the environment. Refer to special instructions Safety Data Sheets.

**Poisons Schedule:** S6 Poison.

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

## 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

# Safety Data Sheet



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.