



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

PRODUCT NAME: Copper Sulphate

OTHER NAME: Cupric Sulphate Pentahydrate, Bluestone, Blue Vitriol, Blue Copperas
MANUFACTURERS CODE: 12951(500g), 16566(50kg)
CORRECT SHIPPING NAME (ADG): None allocated
UN NUMBER: None allocated
DANGEROUS GOODS CLASS: None allocated
SUBSIDIARY-RISK: None allocated
PACKAGING GROUP: None allocated
HAZCHEM CODE: None allocated
POISONS SCHEDULE: S5 - Caution

USE: Fertiliser

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: Blue crystals
MELTING POINT: 110 C - decomposes
BOILING POINT: 150 C
VAPOUR PRESSURE: Not Available
DENSITY: 2.286g/cm³
FLASH POINT: Not Applicable
FLAMMABILITY LIMITS: Not Applicable
SOLUBILITY IN WATER: Very Soluble
CORROSIVENESS: Can be corrosive metals including steel.

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Cupric Sulphate Pentahydrate	7758-99-8	98.8% w/w
Impurities		1.2% w/w

Copper Sulphate

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE**SWALLOWED:**

LD 50(rat): 300mg/kg Copper sulphate is considered to be harmful by ingestion. Symptoms include burning or irritation of mouth, throat, stomach, vomiting, diarrhoea, abdominal pain, jaundice and kidney failure.

EYE:

Severe irritant to the eyes. May cause watering of eyes and blurred vision.

SKIN:

Severe irritant to the skin.

INHALED:

Inhalation of dust and fumes will result in respiratory irritation. Inhalation of high concentrations of dust or fumes may produce "metal fume fever." Symptoms include coughing, fever and fatigue which usually last for 24 to 48 hours.

CHRONIC:

Repeated and prolonged skin contact may result in skin burns and allergic contact dermatitis.

FIRST AID

SWALLOWED:

Rinse mouth immediately with water. Give plenty of water to drink. Induce vomiting using Ipecac syrup if required. Contact Poisons Information Centre and seek medical assistance immediately.

EYE:

Immediately flush eyes with water for at least 15 minutes. Seek medical assistance immediately.

SKIN:

Remove contaminated clothing and wash before re-use. Wash contaminated skin with plenty of soap and water. If irritation, redness or swelling occurs, seek medical assistance.

INHALED:

Remove victim from exposure and allow to rest. Seek medical assistance immediately.

FIRST AID FACILITIES:

Clean water, soap, ipecac syrup.

ADVICE TO DOCTOR:

Treat symptomatically. Can cause severe eye damage. Possible complications following digestion may include liver damage with jaundice, hypotension and renal failure. May result in methaemoglobinemia.

Copper Sulphate

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

No value has been assigned for this specific material by Worksafe Australia.

TWA Copper dusts = $1\text{mg}/\text{m}^3$

TWA Copper fumes = $0.2\text{mg}/\text{m}^3$

TWA is the Time Weighted Average airborne concentrations over an entire 8 hour working day, for a five day working week over an entire working lifetime.

ENGINEERING CONTROLS:

Ensure ventilation is adequate.

PERSONAL PROTECTION:

Goggles, gloves and dustmask should be worn when handling this product.

FLAMMABILITY:

Non-combustible solid.

SAFE HANDLING INFORMATION

STORAGE

Store in the original container in a cool, dry place, out of direct sunlight and out of the reach of children. Keep container closed when not in use to prevent absorption of moisture from the air. Store away from foodstuffs.

This material is a Scheduled Poison (S5) and must be stored and used in accordance with the relevant regulations.

TRANSPORT

Not defined as a dangerous good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

CORRECT SHIPPING NAME: None Allocated

UN NUMBER: None Allocated

DANGEROUS GOODS CLASS: None Allocated

SUB-CLASS: None Allocated

PACKAGING GROUP: None Allocated

Copper Sulphate

SPILLAGE

Wear full protective equipment to prevent inhalation of dusts and skin and eye irritation. Cover with a damp absorbent

Sweep, vacuum or shovel up spilt material, without generating dusts, and collect in a suitably labelled container for disposal.

DISPOSAL

Contact the local shire or Department of Waste Management.

FIRE/EXPLOSION HAZARD

Non-combustible.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes to copper oxide at 650 C releasing toxic fumes of sulphur dioxide SO_x.

FIRE FIGHTING EQUIPMENT:

Wear self contained breathing apparatus if risk of exposure to decomposition products.

OTHER INFORMATION

ECOTOXICITY DATA:

Very toxic to aquatic species. Avoid contaminating waterways.

96 hr LC50 (Rainbow trout, Harlequin fish, goldfish): 0.1 - 2.5 mg/L

48hr LC50 (Daphnia Magna): 24 ug/L

ENVIRONMENTAL FATE:

No information available.

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: Technical Department

DATE: 30/4/2020

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