

SAFETY DATA SHEET

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

RICHGRO GARDEN PRODUCTS

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PRODUCT NAME

Richgro Copper Sulphate

RECOMMENDED USE:

Trace element additive in Horticulture.

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA
NOT CLASSIFIED AS A DANGEROUS GOOD.
NOT A SCHEDULED POISON.

PHYSICAL HAZARDS: Not Classified

Label elements

GHS Signal Word: WARNING

HEALTH HAZARDS:

Acute toxicity – category 4

Eye irritation – category 2

Skin irritation – category 2

ENVIRONMENTAL HAZARDS:

Hazardous to the aquatic environment (acute) – category 1

Hazardous to the aquatic environment (chronic) – category 1

**HAZARD STATEMENT:**

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

P102: Keep out of reach of children

P261: Avoid breathing dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

RESPONSE

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

STORAGE

P402+P404: Store in a closed container, in a dry place.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. For larger quantities that cannot be recycled, dispose of contents and container to approved landfill (see Section 13 of this SDS).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Copper Sulphate	7758-99-8	>98%

SECTION 4 - FIRST AID MEASURES

GENERAL INFORMATION: If in doubt, get medical attention promptly. Show this Safety Data Sheet to medical personnel. Product is irritating to the eyes, skin and respiratory system.

EYES: Hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention.

SKIN: Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

INGESTION: Rinse mouth out with water ensuring that mouth wash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek medical attention as a precautionary measure.

INHALATION: First aid is unlikely to be required as a result of exposure during normal use but dust may cause respiratory tract irritation. If symptoms occur, remove to fresh air. Keep warm and at rest. Seek medical attention if symptoms persist.

Additional Information:

First Aid Facilities: Not required.

Advice to Doctor: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Non-combustible solid. Extinguish fire using whatever is suitable for the primary cause of the fire.

HAZARDS FROM COMBUSTION PRODUCTS: This product is likely to decompose only after exposure to extreme heat. Water of crystallisation will be released first. Further strong heating may result in oxides of sulphur and other toxic fumes being evolved..

PROTECTIVE EQUIPMENT: Fire fighters should wear self-contained breathing apparatus. Keep containers as cool as possible by spraying with water from a protected position.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Wear protective equipment as specified for handling (See Section 8).

SPILLS: Sweep up and shovel into labelled containers for recycling or disposal. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Recycle containers wherever possible after careful cleaning. Recycling is preferred but if necessary, dispose to approved landfill.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Avoid eye contact and prolonged or repeated skin contact. Do not breathe dust.

SAFE STORAGE PRECAUTIONS: No special storage precautions required but product life will be maximised if it is stored out of direct sunlight in a cool well ventilated area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS: None set for copper sulphate
Copper, dusts & mists (as Cu), TWA 1mg/m³

Exposure standards represent the airborne concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. The exposure standard can be of three forms; time-weighted average (TWA), peak, or short term exposure limit (STEL).

BIOLOGICAL LIMIT VALUES: None allocated

ENGINEERING CONTROLS: Ventilation requirements depend on the quantity of product in use and the method of application. If using more than minor quantities, work area should have good, mechanical ventilation. Local exhaust ventilation is unlikely to be required for foreseeable uses of this product.

PERSONAL PROTECTION: Requirements depend on working conditions, method of application and quantity of product in use. No special equipment is required for handling small quantities but safety glasses or goggles must be worn if there is any potential for eye contact. Nitrile, neoprene, PVC or natural rubber gloves should be worn if there is any potential for skin contact.

Respiratory protection is unlikely to be required for foreseeable uses of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour:	Clear, blue crystalline solid
Odour:	None
Boiling Point:	Not applicable.
Melting Point:	Approximately 110°C. (decomposition)
Volatiles:	None.
Vapour Pressure:	Negligible
Vapour Density:	As for water.
Specific Gravity:	2.28.
Water Solubility:	Very soluble.
pH:	Mildly acidic
Volatility:	None.
Odour Threshold:	None.
Evaporation Rate:	None.
Coeff Oil/water Distribution:	No data
Auto ignition temp:	Non-combustible.
Flash point:	Will not burn.
Upper Flammability Limit:	None.
Lower Flammability Limit:	None.
Flammability Class:	None.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage

CONDITIONS TO AVOID: Avoid exposure to moisture.

INCOMPATIBLE MATERIALS: Bases, amines, zinc, tin, aluminium and their alloys.

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve oxides of sulphur if heated to decomposition.

HAZARDOUS REACTIONS: None known.

POLYMERISATION: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE - SWALLOWED: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

ACUTE – EYE: Severely irritating. Contact may cause redness, swelling and pain.

ACUTE – SKIN: Irritating in case of skin contact.

ACUTE – INHALED: Powder or dust may cause irritation to mucous membranes of eyes, mouth and respiratory tract, characterised by coughing, choking, or shortness of breath.

Acute oral toxicity

LD50 Oral, Rat 300mg/kg LD50 Dermal, Rabbit = >2000mg/kg

CHRONIC HEALTH EFFECTS: Not listed as a carcinogen by Safe Work Australia, the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the National Institute for Occupational Safety and Health (NIOSH), or the Occupational Health and Safety Administration (OSHA).

No additional data available

SECTION 12 - ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects

BIODEGRADABILITY: No information available

BIOACCUMULATION: No information available

MOBILITY: No information available

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Recycling is the preferred option but if that is not practicable, dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. Dispose of larger quantities to approved landfill.

SECTION 14 - TRANSPORT INFORMATION

This product is not a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), the International Maritime Dangerous Goods Code (IMDG) nor the International Air Transport Association (IATA) criteria.

UN Number: None allocated

Proper shipping name: None allocated

DG Class: None allocated

HazChem code: None allocated

Packing group: None allocated

SECTION 15 - REGULATORY INFORMATION

All ingredients in this formulation are listed in the Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme (NICNAS).

SECTION 16 - OTHER INFORMATION

REFERENCES

1. National Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2011
2. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
3. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 7.7th Edition, 2020
4. Standard for the Uniform Scheduling of Medicines and Poisons No. 32, February 2021 and subsequent amendments

ABBREVIATIONS

BOD	Biological oxygen demand
CAS number	Chemical Abstracts Service Registry Number
EC50	Half maximal effective concentration
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
LDLo	Lowest documented lethal dose
LD50	Lethal Dose for 50% of test population (ingestion or skin contact)
LC50	Lethal Dose for 50% of test population (inhalation)
UN Number	United Nations Number
TD	Toxic Dose

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