



ABN: 81 008 668 371

MATERIAL SAFETY DATA SHEET

StrataSol[®] Copper

Section 1 – Identification of the Material and Supplier

Product Name

StrataSol[®] Copper

Other names

CSBP StrataSol[®] Copper, Copper Suspension Concentrate, Liquid Copper, CSBP Product Code W91

Recommended use

Agricultural Applications, Trace Elements

Company name

CSBP Limited

Address

Kwinana Beach Road, KWINANA

State

Western Australia

Postcode

6167

Telephone number

(08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas)

Emergency telephone number

1800 093 333 (Australia), +61 8 9411 8444

Section 2 – Hazard Identification

Hazard Classification, including a statement of overall hazardous nature

HAZARDOUS SUBSTANCE.

StrataSol[®] Copper is classified as hazardous according to NOHSC criteria.

DANGEROUS GOODS.

StrataSol[®] Copper is not classified as a dangerous good according to the ADG Code.

Risk Phrases

- R22** Harmful if swallowed.
R43 May cause sensitisation by skin contact.

Safety Phrases

- S2** Keep out of reach of children.
S22 Do not breathe dust.
S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S37 / 39 Wear suitable gloves and eye/face protection.
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

Poison Schedule

Not been allocated.

Section 3 – Composition/Information on Ingredients

Chemical identity of ingredients

Copper (I) Oxide (Cu₂O)
1,2-Benzisothiazolin-3-one
(C₇-H₅-N-O-S)
Non Hazardous Ingredients

Proportion of ingredients

39 % (wt/wt)
< 0.1 % (wt/wt)
Remainder

CAS Number for ingredients

1317-39-1
2634-33-5
Not Available



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Section 4 – First Aid Measures

First Aid Facilities

Eye wash facilities should be available.

FIRST AID PROCEDURES FOR DEALING WITH THIS PRODUCT AND EXPOSURE TO IT

1. Swallowed

For advice, contact a Poisons Information Centre on (08) 13 1126 (Australia only) or a doctor.

2. Eyes

Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.

3. Skin

Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

4. Inhalation

If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

ADVICE TO DOCTOR.

Treat symptomatically.

Section 5 – Fire Fighting Measures

Product flammability

Non flammable. No fire or explosion hazard exists. May evolve toxic fumes of copper oxides when heated to decomposition.

Suitable extinguishing media

Non flammable.

Hazard from combustion products

Non flammable. No fire or explosion hazard exists.

Hazchem Code

None allocated.

Section 6 – Accidental Release Measures

Methods and Materials for containment and clean up

If spilt, absorb with sand or similar. Wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Collect and place in sealable containers for disposal. Caution: Spill site may be slippery.

Section 7 – Handling and Storage

Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated area, removed from oxidising agents, acids and foodstuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use. Also store removed from combustible materials.



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Section 8 – Exposure Controls/Personal Protection

National exposure standards

	ES-TWA	ES-STEL	ES-Peak
Copper (I) Oxide (1317-39-1)	1 mg/m ³ (copper dust)	No data available	No data available
1,2-Benzisothiazolin-3-one (2634-33-5)	0.1 mg/m ³ (isothiazolones)	0.3 mg/m ³ (isothiazolones)	No data available

Engineering controls

Use in well ventilated or mechanically exhausted area. Maintain vapour levels below the recommended exposure standard.

Personal protective equipment

Wear splash-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Full-face Type A- Class P1 (Organic gases/vapours and Particulate) respirator. When using large quantities or where heavy contamination is likely, wear coveralls.

Section 9 – Physical and Chemical Properties

Appearance (colour, physical form, shape)

Orange / brown liquid.

Odour

Slight odour.

pH

8.5 – 9.5

Vapour pressure

Not available.

Vapour density

Not available.

Boiling point/range

> 100°C

Freezing/melting point

Not available.

Evaporation rate

Not available.

Solubility

Not available.

Specific gravity

1.48 – 1.52

% Volatiles

Not available.

Flammability

Not Flammable.

Flash point and method of detecting flash point

Not relevant.

Upper and lower flammable (explosive) limits in air

Not relevant.

Ignition temperature

Not available.



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Section 10 – Stability and Reactivity

Reactivity

Incompatible with oxidising agents (e.g. peroxides) and acids (e.g. hydrofluoric acid). Also incompatible with combustible materials.

Decomposition products

May evolve toxic fumes of copper oxides when heated to decomposition.

Section 11 – Toxicological Information

HEALTH EFFECTS

Moderate toxicity - irritant. Use safe work practices to avoid skin and eye contact. Chronic exposure may cause liver, kidney and blood damage. The potential for adverse health effects is greatly reduced upon dilution.

Inhalation:

Irritant. Over exposure to vapours or mists may result in upper respiratory tract irritation, nausea and headache. Due to the low vapour pressure of this product an inhalation hazard is not anticipated unless sprayed.

Skin:

Irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

Eye:

Irritant. Exposure may result in lacrimation, irritation, pain and redness.

Swallowed:

Moderately toxic. Ingestion may result in nausea, vomiting, abdominal pain and diarrhea. Chronic exposure may result in kidney/liver and blood damage.

TOXICITY DATA

Copper (I) Oxide (1317-39-1)	LD50 (Ingestion): 470 mg/kg (rat)
1,2-Benzisothiazolin-3-one (2634-33-5)	LD50 (Ingestion): 1020 mg/kg (rat)

Section 12 – Ecological Information

Environment

SOIL: Copper is found in the earth's crust both in its native state and combined into other minerals.

BIOLOGICAL: Positive potential for food chain accumulation. Soluble copper compounds are highly toxic to aquatic and plant life. Insoluble copper compounds are significantly less environmentally hazardous.

Section 13 – Disposal Considerations

Disposal methods and containers

For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

Legislation

Dispose of in accordance with relevant local legislation.



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Section 14 – Transport Information

UN Number

None allocated.

UN Proper shipping name

None allocated.

Class and subsidiary risk

None allocated.

Packing group

None allocated.

EPG

None allocated.

Hazchem code

None allocated.

Section 15 – Regulatory Information

Australian regulatory information

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 – Other Information

Key / legend to abbreviations and acronyms used in the MSDS

NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
ES-TWA	Exposure Standard – Time weighted average
ES-STEL	Exposure Standard – Short term exposure level
ES-Peak	Exposure Standard – Peak level
LD ₅₀	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
% (wt/wt)	Percent amount on a weight per weight basis
mg/m ³	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

Important Notes

1. To the best of our knowledge this document complies with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)].
2. This material safety data sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this material safety data sheet and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.
3. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Safety and Emergency Services Department, CSBP Limited on (08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas).
4. Our responsibility for products sold, is subject to our terms and conditions, a copy of which is sent to our customers, and is also available on request.
5. CSBP reserves the right to make change to material safety data sheets without notice.