

MATERIAL SAFETY DATA SHEET

This product is classified as a Hazardous Substance according to criteria of NOHSC Australia

1. IDENTIFICATION OF THE MATERIAL

Product Name: **Copperising Solution**
Other Names; **Copper Roller Rejuvenator**
Supplier: **GSB Chemical Co. Pty. Ltd** Telephone: **+61 03 9457 1125**
ACN 004 355113 Facsimile: **+61 03 9459 7978**
84 Camp Road Internet: **www.gsbchem.com.au**
Broadmeadows Vic. 3047 e-mail: **info@gsbchem.com.au**

Major Uses and Methods of Application: For copperising of steel rollers and rubber rollers
and elimination of glaze, calcium and stripping problems
Applied direct from the container

2. COMPOSITION

	CAS No.	PROPORTION
Water	7732-18-5	> 60 % w/w
Sulphuric acid	7664-93-9	< 10 % w/w
Copper Salts	7758-98-7	10 – < 30% w/w

3. HAZARDS IDENTIFICATION

Risk Phrases: Irritating to eyes and skin

Poisons Schedule: S6

4. FIRST AID MEASURES

For advice, contact a Poisons information Centre (Phone Australia 13 1126, New Zealand 0 800 764766)

Swallowed: If swallowed, DO NOT induce vomiting. Give a glass of water and seek medical advice.

Eye: Flush with flowing water for at least 20 minutes, and if symptoms persist, seek medical attention.

Skin: Flush skin with flowing water, use soap if available. Remove contaminated clothing and shoes. If irritation persists, seek medical attention Decontaminate clothing before re-use or discard

Inhalation: Remove source of contamination or move person to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention

Advice to Doctor: Treat symptomatically; gastric lavage should only be undertaken after endotracheal intubation.

5. FIRE FIGHTING MEASURES

Product will not burn in isolation however if involved in a fire the products of combustion include formic acid and carbon monoxide. Fire fighters to wear self contained breathing apparatus if risk of exposures to combustion products. Use water spray (fog), foam, CO₂ or dry chemical)

6. ACCIDENTAL RELEASE MEASURES

Spilled liquid may make floors and surfaces slippery. Contain spill and recover spilled liquid for disposal. Remainder can be washed away with copious quantities of water. Consult local authority regarding disposal of detergents. Dispose absorbed and unrecoverable material to an approved

7. HANDLING AND STORAGE

Handling: Classified as corrosive and must be stored and used in accordance with the relevant regulations.
Avoid skin and eye contact and breathing in vapour

Storage: Store in closed containers away from direct sunlight.
Only store this product in glass or plastic containers, or polyethylene lined steel as it will be mildly corrosive to most metals. Store away from heat, alkalis, foodstuffs and oxidising agents. This material is a Schedule 6 Poison and must be stored and used in accordance with the relevant regulations.

8. EXPOSURE AND PERSONAL PROTECTION

Not established for the mixture. Worksafe Australia Exposure Standard [N0HSC:1003(1995)]: for the individual components:
Sulphuric Acid 1mg/m³ of air (TWA), 2 mg/m³ (STEL)

TWA – Time-weighted average airborne concentration over an eight hour working day, for a five day working week over an entire working life.

STEL - short term exposure limit – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day

Personal Protection:

Eye protection: Safety glasses, goggles or face shield as required

Hand Protection: PVC, neoprene or nitrile rubber gloves

Footwear: Rubber boots

Respiratory Protection: If airborne concentrations are likely to exceed the Exposure Standard, wear approved organic vapour respiratory protection (AS/NZS 1715 and 1716). In high vapour concentrations, wear an air-supplied hood.

Safety showers with eyewash should be provided in all areas where product is handled. No respiratory protection required if engineering, storage and handling controls are adequate,

Engineering Controls: General (mechanical) room ventilation plus special local exhaust ventilation at points where vapour could escape to the work environment. All ventilation equipment must be fitted with flame and explosion proof electrical fittings

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Dark Blue liquid.
Specific Gravity:	1.12
Boiling Point range:	80 - 100 °C
Vapour Pressure:	Not available
Vapour Density: (air=1)	1
Percentage volatile (by volume):	90%
Solubility in water:	soluble
pH:	~2

10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage
Conditions to avoid:	Strong oxidisers, strong alkalis, strong acids and selected amines.
Incompatibility:	Materials to avoid for purposes of transport, handling and storage only. Strong oxidising agents (e.g. liquid chlorine, concentrated oxygen, sodium hypochlorite).

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

No toxicity data available for the product, however for individual components:
Suplhuric Acid (100%) - LD50 (rat) 2140 mg/kg. Oral LC 50 (rat) 510 mg/M³/2H.
Copper salts: LDLo (Ingestion) : 50 mg/kg (human)
LD50 (Ingestion) : 300 mg/kg (rat)

No adverse health effects expected if the product is handled in accordance with this MSDS and product label.
Symptoms or effects that may arise if the product is misused and overexposure occurs are:

Swallowed:	Corrosive to mouth, throat and digestive tract. Copper salts are Moderately toxic. Effects may include gastritis, abdominal pain, diarrhoea, nausea or vomiting, haemolysis, liver and kidney damage, shock and convulsions
Eye:	Severe irritant. Corrosive to eyes. Contact can cause conjunctivitis and corneal ulceration
Skin:	Irritant. Repeated or prolonged contact may cause dermatitis and burns. Poisoning may occur via absorption through abraded skin Copper Salts LD50 (Skin) : > 2000 mg/kg (rat)
Inhalation:	Vapours given off by the product with normal evaporation are not harmful. Inhalation of sprays or mists will cause respiratory irritation and can cause nausea vomiting or headaches

12. ECOLOGICAL INFORMATION

Avoid run off into sewers and ditches.

BIOLOGICAL:

Positive potential for food chain accumulation. Soluble copper compounds are highly toxic to aquatic and plant life. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

13. DISPOSAL

Waste Disposal: Ensure conformity with local disposal regulations. Steps to be taken in case material is released or spilled: 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.

14. TRANSPORT INFORMATION

U.N. Number: 2796
D. G Class: 8

Hazchem Code: 2R
Packaging Group: II

15. REGULATORY INFORMATION

Risk Phrase: R36/38 Irritating to eyes and skin

Safety Phrase: S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

Poisons Schedule: S6

Hazard Category: Xi Irritant, Sulphuric acid 5 – 15%

16. OTHER INFORMATION

Contact: Technical Manager
Telephone (03) 94571125

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END OF MSDS