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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **CUSOL**
 MANUFACTURER: Lonza NZ Ltd
 SUPPLIER NAME: Lonza NZ Ltd
 SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
 SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
 EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888
 CHEMICAL FAMILY: Copper USE: Protectant fungicide

2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
 6.5B; Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.
 6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 8.2C; Danger - this product is corrosive to the skin and may cause skin burns.
 8.3A; Danger - this product is corrosive and may cause eye damage.
 9.1A; Very toxic to fish/aquatic organisms with long-lasting effects.
 9.3B; Toxic to terrestrial vertebrates [birds].
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
- Copper sulphate	7758-98-7	<50	
- Ammonium base		<30	
- Amine base		<30	
- Water		Balance	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.
 SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Wash clothing before reuse.
 INHALATION: If ill-effects occur, move to fresh air. If ill-effects persist, consult a doctor.
 INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
 NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X
 FLAMMABLE LIMITS: Not applicable.
 EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
 THERMAL DECOMPOSITION PRODUCTS: None.
 SPECIAL FIRE FIGHTING METHODS: None.
 UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.
 Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice in a land fill and in compliance with all regulations.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
 Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.
 Wear eye protection. Impervious gloves should be worn at all times. Wear other personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.
 EYE PROTECTION: Chemical goggles or face shield where splash may occur.
 RESPIRATORY PROTECTION: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.
 PROTECTIVE CLOTHING: Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, overalls and boots] should be worn. Wash protective clothing daily after work.
 VENTILATION: General (mechanical) room ventilation is considered satisfactory.
 HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Deep blue liquid.
BOILING POINT: Not available. pH: 8 - 9
DENSITY: 1.27 SETTING POINT: Not available.
DECOMPOSITION TEMP: Not available. AUTOIGNITION TEMP: Not applicable.
FLASHPOINT: Not applicable. VAPOUR DENSITY: Not available.
EXPLOSION PROPERTIES: Not applicable. VAPOUR PRESSURE: Not available.
SOLUBILITY: Not available.
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT: Not available.

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: Do not store in steel containers.
HAZARDOUS DECOMPOSITION: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: No specific data.
ACUTE DERMAL: No specific data.
ACUTE INHALATION: No specific data.
OTHER TOXICITY INFORMATION:
May be harmful if swallowed, inhaled or absorbed through the skin.
May cause skin sensitization from prolonged skin contact. Avoid skin contact.
May cause organ damage from repeated oral exposure at high doses.
Danger - this product is corrosive to the skin and eyes and may cause skin burns and cause eye damage.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish.
Soil Toxicity: Not harmful to soil environment.
Terrestrial Vertebrates - Birds: Toxic to birds.
Terrestrial Invertebrates - Bees: Not harmful to bees.

Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
Toxic to terrestrial vertebrates [birds].

13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in a approved landfill.
Dispose of product only by using according to this label, or at an approved disposal facility.
Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Copper salts)
UN Number: 3082 UN Hazard Class: 9
Packing Group: III Hazchem Code: 2X
Additional Information: IATA Special Provision A197 applies for containers 5L or less (not restricted).

15. REGULATORY INFORMATION:

APPROVED HANDLER: This product must be under the personal control of an approved handler when:
a) the product is applied in a wide dispersive manner; or
b) used by a commercial contractor.
However, it may be handled by a person who is not an approved handler if:
- an approved handler is present at the facility where the substance is being handled; and
- the approved handler has provided guidance to the person in respect to the handling of the product; and
- the approved handler is available at all times to provide assistance if necessary.

CuSol shall NOT be applied onto or into water.

RECORD KEEPING: A written record of use is required if 3 kg or more of this product is used within 24 hours in a place where:
a) public may lawfully be present; or
b) the substance is likely to enter air or water supply and leave the place where it is under control.
The information must be kept for a minimum of three [3] years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100606 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008532 See <www.nzfsa.govt.nz> for registration conditions.

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.