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

PRODUCT NAME: **AG Copp 75**
 MANUFACTURER: American Chemet Corporation
 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: Inorganic USE: Fungicide

2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
 6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.
 6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 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:
Cuprous Oxide	1317-39-1	86	H302, H410
Inerts		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 inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
 INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
 NOTES TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable HAZCHEM CODE: 2X
 FLAMMABLE LIMITS: Non-flammable
 EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical or Water spray (fog).
 THERMAL DECOMPOSITION PRODUCTS:
 SPECIAL FIRE FIGHTING METHODS Use self-contained breathing apparatus.
 UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment.
 Large spill: Gently sweep as much as possible to a salvage container. Collect the remaining material in the most appropriate manner, minimising 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 and respiratory protection when handling the powder. Impervious gloves should also be worn. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: WES set for Copper; - 8h TWA (vapour & particulates): 1 mg/m³.
 No TEL, or EEL exposure limits have been specifically assigned for this product.
 EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when handling.
 RESPIRATORY PROTECTION: When handling wear suitable respiratory protection, minimum a dust mask, should be worn.
 PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing [gloves, overalls, 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:	Red or brown fine powder		
BOILING POINT:	Not applicable	pH:	No data
DENSITY:	1500 - 2000 kg/m ³	SETTING POINT:	Not applicable
DECOMPOSITION TEMP:	No data	AUTOIGNITION TEMP:	Non-flammable
FLASHPOINT:	Non-flammable	VAPOUR DENSITY:	Not applicable
EXPLOSION PROPERTIES:	Not explosive	VAPOUR PRESSURE:	Not applicable
SOLUBILITY:	Negligible in water [$<0.1\%$]		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not applicable		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures. Avoid temperatures $>100^{\circ}\text{C}$ while in presence of moist air.
MATERIALS TO AVOID:	Avoid strong acids and strong bases.
HAZARDOUS DECOMPOSITION	Copper fumes will be released if heated above its melting point [1235°C]

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 470 mg/kg
ACUTE DERMAL:	LD50 Rats: >2000 mg/kg
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	No records of occupational diseases attributable to copper.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (48h) young goldfish; 60 mg/L
LC50 (48h) daphnia magna; 0.0098 - 0.0412 mg/L

Copper is a necessary trace element and stimulates plant growth and yield on copper deficient soil. Copper is an integral part of various oxidizing enzymes, and several animal diseases may occur if the diet is deficient in copper. Cuprous oxide is an active ingredient in antifouling paints and accordingly toxic to primitive marine organisms. Avoid contamination of any water supply with this product or empty container.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label, or at an approved disposal facility. The packaging can be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance to all regulations. Avoid contamination of any water supply with chemical or packaging.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Cuprous Oxide)		
UN Number:	3077	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X
Additional Information:	Do not carry more than 3 kg of this product on a passenger service vehicle.		

15. REGULATORY INFORMATION:

APPROVED HANDLER: The 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.

This product 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: HSR100980 See www.epa.govt.nz for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P005506 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.