

Material Safety Data Sheet

Date: Jan 2019

Version: 3.1

1. Company details

Name: Hygrotech Properties (Pty) Ltd

Address: 1 Gerard Braak street, Pyramid, Pretoria, 0120

Emergency Telephone numbers:

Griffon Poison Information Centre: 082 446 8946

Hygrotech Head Office: 012 545 8000 (o/h)

2. Product identification

Product Name: Copper Count N

Identification: Copper Based Fungicide

Recommended use: Fungicide, only use as directed

UN no: UN3082

3. Hazards identification

Substance/mixture:

Chemical identity	CAS no,	%	R-phrases
Copper ammonium acetate	23087-46-9	8-10	R22; R36/37/38;R50

4. First Aid measures

Inhalation	Allow the patient to rest in a well-ventilated area. If necessary use artificial respiration to support vital functions Remove and isolate contaminated clothing and shoes. Make sure medical personnel are aware of the substance involved, and take precaution to protect them.
Ingestion	If this product is swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTRE FOR MOST CURRENT INFORMATION. Do not induce vomiting. The patient should drink milk or large quantities of water.
Skin contact	Decontaminate the affected area with running water. Minimum recommended flushing time is 15 Minutes, especially if an adverse skin

	reaction occurs.
Eye contact	IMMEDIATELY flush with running water for at least 15 minutes, keep eyelids open. COLD water must be used
Additional information	Take a copy of the label and MSDS to Physician or health professional with victim

5. Fire-fighting measures	
Suitable extinguishing media	Water spray, carbon dioxide, foam, dry chemicals, halon and any other ABS Class
Hazards arising from the chemical	When involved in a fire and exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapours and toxic gasses (eg oxides, carbon monoxide, ammonia and carbon dioxide)
Special protective equipment	Fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. If possible prevent runoff water from entering storm drain bodies of water or other environmentally sensitive areas

6. Accidental release measures	
Personal precaution	In case of a release, clear the affected area and protect people. Appropriately trained personnel, in proper personal protective equipment, using pre-planned procedures, should respond to uncontrolled releases
Environmental precaution	Prevent contamination of environmentally sensitive areas
Containment and clean-up	For small spills: gloves, safety glasses and appropriate body protection For large spills: Minimum personal protective equipment should be level C: triple gloves, chemical resistant suit and air purifying respirator with a high-efficiency particulate filter. If necessary dike the spill to prevent release from contaminating environmentally sensitive areas. Absorb spilled liquid with polypads or other suitable absorbent material. Place all spill residue in a appropriate container and seal. Re-use this product or dispose of it in accordance with regulations

7. Handling and storage	
Safe handling	Avoid getting the product on yourself. Wash thoroughly after handling this material. Do not eat , drink, smoke or apply cosmetics while handling this product. Use in well ventilated area
Safe storage	Open container slowly on a stable surface. Re-lease any pressure build-up from the container before totally opening the lid. All containers containing this material must be clearly labelled. Empty containers

	should be handled with care. Store containers in a cool dry location, away from direct sunlight and sources of intense heat, or where freezing is possible. Store away from incompatible materials (see section 10) Material should be stored in secondary containers or dike area. Keep containers tightly closed when not in use. Inspect all incoming containers before storage to ensure that containers are properly labelled and are not damaged
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8. Exposure controls/personal protection	
Skin protection	Overall clothing, boots
Eye protection	Safety glasses
Hand protection	Rubber gloves

9. Physical and chemical properties	
Appearance	Dark blue liquid
Odour	Slight ammonia odour
pH	7.5-8.2
Specific gravity	1.14
Solubility	Soluble in water
Octanol/water partition coefficient:	This product is much more soluble in water

10. Stability and reactivity	
Chemical stability	This product is stable
Conditions to avoid	Extreme temperatures and incompatible materials
Incompatible materials	Strong bases, strong oxidisers, strong reducers and water reactive materials
Hazardous decomposition products	Oxides, carbon monoxide, ammonia and carbon dioxide

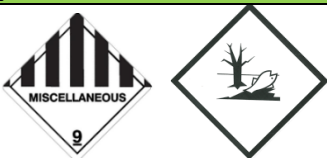
11. Toxicology information	
Skin irritation	Mild to moderate irritant to skin
Sensitization	Prolonged contact may lead to skin sensitization
Carcinogenicity	Inadequate evidence

12. Ecological information	
Toxic to fish	Bluegill: LC ₅₀ : 0.02 ppm in soft water
	Brook trout: LC ₅₀ : 0.09 ppm in soft water
	Fathead minnows: LC ₅₀ : 0.14 ppm in soft water

13. Disposal information	
Disposal methods	Rinse empty container 3 times with a volume of water equal to one tenth of the volume of the container and or to the spray tank
Disposal of packaging	Destroy the container by perforation and flattening, before

	disposal
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14. Transport information	
UN No.	3082
UN proper shipping name	Environmentally Hazardous substance, liquid, N.O.S.
Transport hazardous class	9
Packing group	III
Environmental hazard	Yes
Trem card no.	2018-03-06

15. Regulatory information	
Hazard symbol	
Classification:	Environmentally hazardous
Risk phrase	R22: Harmful if swallowed R36/37/38: Irritating to eyes, respiratory system and skin R50: Very toxic to aquatic organisms
Safety phrase	S2: Keep out of reach of children S7: Keep container tightly closed S24: Avoid contact with skin S25: Avoid contact with eyes S29: Do not empty into drains S46: If swallowed, seek medical advice immediately and show the container or label

16. Other information	
Date of issue	Jan 2019
Date of previous issue	Nov 2018
Version	3.1
Prepared by	User2005

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