

Material Safety Data Sheet

Date: April 2019 Version:2019-04

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: LiquiCop Copper Fungicide

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	13822-80-5	8-10	R22;
acetate			R36/37/38;R50

4. First Aid measures		
	Allow the patient to rest in a well-ventilated area. If necessary use	
Inhalation	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.	
	If this product is swallowed, CALL A PHYSICIAN OR POISON CONTROL	
Ingestion	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.
Evo contact	IMMEDIATELY flush with running water for at least 15 minutes, keep
Eye contact	eyelids open. COLD water must be used
Additional	Take a copy of the label and MSDS to Physician or health professional
information	with victim

5. Fire-fighting measures		
Suitable extinguishing media	Water spray, carbon dioxide, foam, dry chemicals,	
Suitable extiliguisilling illeula	halon and any other ABS Class	
	When involved in a fire and exposed to extremely	
	high temperatures, the components of this product	
Hazards arising from the chemical	will decompose to produce irritating vapours and	
	toxic gasses (eg oxides, carbon monoxide, ammonia	
	and carbon dioxide)	
	Fire responders should wear eye protection.	
Special protective equipment	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		
	In case of a release, clear the affected area and protect	
Dorsonal procaution	people. Appropriately trained personnel, in proper personal	
Personal precaution	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		
	Avoid getting the product on yourself. Wash thoroughly after handling	
Safe handling	this material. Do not eat , drink, smoke or apply cosmetics while handling	
	this product. Use in well ventilated area	
	Open container slowly on a stable surface. Re-lease any pressure build-up	
Safe storage	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 an ear not damaged

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 chemical odour	
рН	7.5-8	
Flash point	>93 °C	
Specific gravity	1.14 - 1.16	
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	Skin contact may cause slight irritation, not considered an eye irritant
Sensitization	Prolonged contact my lead to skin sensitization
Toxicity	Product Oral LD50 (rat) > 2055 mg/kg
	Product Dermal LD50 (Rabbit) > mg/kg.

12. Ecological information	
Ecotox 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

unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

	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

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	MISCELLANEOUS 9	
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	April 2019	
Date of previous issue	Nov 2018	
Version	201904	
Prepared by	User2005	

Notice to the reader

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist