

Safety Data Sheet

Issue No: 1.0	1 st Edition: March 2021	Issued by ICA International Chemicals
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1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name: **CopperKill SC**
 Recommended Use: Agricultural Fungicide
 Supplier: ICA International Chemicals (Pty) Ltd
 Address: 28 Planken Street
 Plankenbrug Industrial
 STELLENBOSCH · 7600 · SOUTH AFRICA
 Telephone No: +27 (0) 21 886 9812
 Fax No: +27 (0) 21 886 8209
 Emergency Tel No: Griffon Poison Information Centre: +27 82 446 8946
 Poisons Helpline: +27 82 446 8946

2. HAZARD IDENTIFICATION ON PRODUCT

GHS classification of product Acute Toxicity oral Category 4
 Acute Toxicity dermal Category 4
 Acute Toxicity inhalation Category 4
 Acute Aquatic Toxicity Category 1
 Chronic Aquatic Toxicity Category 1

GHS Label elements



Signal Word

Danger

Hazard Statements

H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H332: Harmful if inhaled.
 H400 + 410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P101: If medical advice is needed: Have product container or label at hand.
 P102: Keep out of reach of children.
 P261: Avoid breathing dust, mist, and spray.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink, or smoke when using this product.
 P273: Avoid release to the environment.
 P280: Wear protective gloves, protective clothing, eye protection and face protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTRE/doctor if you feel unwell.
 P330: If SWALLOWED: Rinse mouth.
 P362 + P364: Take off contaminated clothing and wash before reuse.
 P391: Collect spillage.
 P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
 P501: Dispose of container and contents in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO:	Concentration (g/ℓ)
Copper Hydroxide	20427-59-2	538
Metallic copper equivalent		350

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

- INGESTION:**
- Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing.
 - If swallowed, DO NOT induce vomiting, unless instructed to do so.
 - If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water.
 - Never give anything by mouth to an unconscious person.
 - Seek medical advice immediately.
- INHALATION:**
- Treat symptomatically and supportively.
 - Remove patient from source of exposure and move to fresh air.
 - If not breathing gives artificial respiration/oxygen.
 - Do not give mouth-to-mouth resuscitation if victim ingested or inhaled the substance.
 - Get medical advice if feeling unwell.
- EYES:**
- Treat symptomatically. Remove any contact lenses. Rinse eyes immediately with plenty of clean water for at least 15 minutes. Hold eyelids apart while flushing.
 - Seek medical help if irritation continues.
- SKIN:**
- Treat symptomatically. Remove contaminated clothing and take a shower.
 - Wash skin with soap or mild detergent and water for at least 15 minutes.
 - If skin irritation occurs: Get medical attention/advice.
 - Wash clothing before re-use.
- NOTE TO PHYSICIAN:**
- Treat symptomatically.
- POTENTIAL HEALTH AFFECTS:**
- **INHALATION:** Causes irritation to the mucous membranes of the respiratory tract. The product is slightly toxic by inhalation.
 - **INGESTION:** Slightly toxic by oral exposure. If ingested in large quantities, the material may produce toxicity.
 - **SKIN:** Causes mild skin irritation. Not significantly absorbed through the intact skin. Readily absorbed through damaged or burned skin. Excessive exposure, especially if prolonged, may produce skin irritant.
 - **EYES:** Causes irritation, redness, and pain.

5. FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:**
- Alcohol-resistant foam, dry chemical powder, or carbon dioxide.
 - Water spray or fog can be used for larger fires or cooling of unaffected stock.
- HAZARDS FROM COMBUSTION PRODUCTS:**
- Fire may produce irritating or poisonous vapours, mists, or other products of combustion.
- PRECAUTIONS FOR FIRE FIGHTERS:**
- Fire fighters should wear full protective gear including NOISH approved self-containing breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.
- Further information:**
- In case of fire and/or explosion do not breathe fumes.
 - Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion.
 - If possible, safely remove intact containers from the fire.
 - Keep containers cool by spraying with water if exposed to fire.
 - Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK:

- Avoid contact with spilled material or contaminated surfaces.
- Wear personal protective clothing and equipment as specified in section 8.
- Contain spillage by absorbing with sand or other non-combustible material and transfer to a suitable container for reclamation or disposal, according to local regulations.
- PREVENT spilled material from entering rivers, dams, drains or sewer systems. If the product contaminates rivers and dams or drains inform respective authorities.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear suitable protective clothing as specified in section 8 (Dust mask; Eye shields, Gloves). Avoid contact with eyes.
Do not eat, drink, or smoke while handling the product.
Wash hands, arms, and face after use.

CONDITIONS FOR SAFE STORAGE: Store out of reach of children, tightly closed in original containers, which include the complete label, in a cool, dry, and well-ventilated area out of direct sunlight, heat, sparks and other sources of ignition.
Protect against physical damage. Observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

VENTILATION SYSTEM: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

RESPIRATOR: Wear a NIOSH approved respirator when handling the concentrated product.

SKIN PROTECTION: Wear suitable personal protective equipment including rubber gloves and boots.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form)	Blue liquid suspension
ODOUR:	Slight odour
SOLUBILITY:	Soluble in water
DENSITY:	1.44 – 1.48 g/cm ³
pH (1 % in water)	8.0
BOILING POINT:	> 100 °C
VISCOSITY:	500 – 1800 cps

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage.

CONDITIONS TO AVOID: Excessive heat.

11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA (a.i.)

ACUTE ORAL:	LD ₅₀ (rat)	2414 mg/kg bw
ACUTE DERMAL:	LD ₅₀ (rats)	2500 mg/kg bw
ACUTE INHALATION -mist:	LC ₅₀ (4h) rat	1.38 mg/ℓ

12. ECOLOGICAL INFORMATION (a.i.)

ECOTOXICITY:	The product is very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
PERSISTENCE & DEGRADABILITY:	Copper is a chemical element and therefore cannot be degraded or transformed into related metabolites.
BIO-ACCUMULATIVE POTENTIAL:	In soil it is strongly bound to a wide range of soil substances, therefore limiting the amount of free copper ion in soil solution and so its bioavailability. The amount of free copper ion is primarily controlled by pH and the amount of dissolved organic carbon in the soil. In acid soils, copper ions will be at greater concentration than at neutral or alkaline pH. Copper is not expected to leach to the saturated zone.

13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

Invert empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Replace cap and return clean container to recycler. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. Do not use container for any other purpose.

DO NOT burn empty containers or product.

DIP Disposal: According to local legislative requirements.

14. TRANSPORT INFORMATION

UN NUMBER:	3082
PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper hydroxide 53.8 %)
CLASS AND SUBSIDIARY RISK(S):	Class 9
PACKING GROUP:	III
MARINE POLLUTANT:	YES
Tel No:	+27 (0) 21 886 9812



15. REGULATORY INFORMATION

South African Registration number L10999, Act No. 36 of 1947

16. OTHER INFORMATION

This Safety Data Sheet (SDS) summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for this reason we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used for this product only.

END of SDS