

SAFETY DATA SHEET

Free Flo Copper

SECTION 1: Identification of the substance and supplier

Product name: Free Flo Copper
Recommended Use: Agricultural / Horticultural fungicide

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui 3116 (P.O. Box 14-450 Tauranga 3143)
Email: info@grosafe.co.nz
Telephone Toll Free Number:
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY)

Date of Issue: August 2011

SECTION 2: Hazards Identification

HSNO Hazard Classification: 6.1D, harmful by ingestion, 6.3B, mild skin irritant, 6.9B harmful to target organs 8.3A can cause eye damage , 9.1A, very toxic to aquatic organisms, 9.3C, harmful to terrestrial vertebrates

SECTION 3: Composition/information on ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>Content</u>
cupric hydroxide	(CAS# 20427-59-2)	46.1 %

SECTION 4: First Aid Measures

In case of poisoning by any route contact a doctor or Poisons Information Centre.

Swallowed: Rinse mouth with water. Do not induce vomiting. Immediately contact a doctor or Poisons Information Centre.

Eye: Flush eyes with large quantities of water for 15 minutes. Seek medical advice if irritation persists.

Skin: If contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. Consult a doctor if irritation persists.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

Advise to Doctor: If poisoning is suspected apply symptomatic therapy. Contact Poisons Information Centre (0800 POISON (0800 764 766) for more information.

SECTION 5: Fire Fighting Measures

Dangerous Goods Class:	9
Extinguishing media:	Fine water spray or foam.
Unsuitable extinguishing media:	None
Special exposure hazards:	None
Fire and Explosive Properties:	None
Flammability:	Non-flammable

SECTION 6: Accidental Release Measures

In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Place spilled material into compatible disposal container. Scrub area with water plus detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

SECTION 7: Handling and Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store with food or drink. Wash thoroughly with soap and water after handling. Avoid contact with eyes and skin.

SECTION 8: Exposure Control/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material, Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

SECTION 9: Physical and Chemical Properties

Appearance:	Blue granules
Odour:	None
pH (1% solution):	ca. 8.0
Boiling Point:	Not applicable
Flammable (Explosive) Limits:	Non flammable
Explosive Properties:	Not explosive
Oxidizing Properties:	Not an oxidizing agent
Relative density:	ca 0.71 g/cm ³
Solubility:	Readily dispersible in water

SECTION 10: Stability and Reactivity

Stability:	Stable
Conditions to avoid:	Decomposes on heating
Materials to avoid:	As above
Hazardous Decomposition Products:	May be formed at high temperatures
Hazardous Polymerisation:	Will not occur

SECTION 11: Toxicological Information

LD ₅₀ Information	
Oral	LD ₅₀ 1847 mg/kg (rat)
Dermal	LD ₅₀ >2000 mg/kg (rabbit)
Inhaled	LC ₅₀ >2.80 mg/L air (4 hour exposure rat)
Irritation:	
Eye -	Non irritant
Skin: -	Non irritant
Sensitisation:	Skin - non-sensitiser
Reproductive Toxicity:	No effects on foetal development

SECTION 12: Environmental Information

Mobility:	Relatively immobile
Bioaccumulation:	Does not bioaccumulate
Ecotoxicity:	
Toxicity to fish	LC ₅₀ / 96 h/ (Rainbow trout): 825 mg/l
Toxicity to algae	EC ₅₀ / 72 h/ (Green algae) 0.02036 mg/l
Toxicity to Daphnia	EC ₅₀ / 48 h/ (Water flea): 0.118 mg/l

SECTION 13: Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws.

SECTION 14: Transport Information

UN Number: 3077
UN Shipping Name: Environmentally hazardous substance, solid (Copper Hydroxide)
UN Packing Group: III
Class: 9 (marine pollutant)

SECTION 15: Regulatory Information

Free Flo Copper is a registered product under the ACVM Act 1997 (P 8704).
See www.foddsafety.govt.nz for registration conditions.
Free Flo Copper is approved under the HSNO Act 1996 (HSR000739).
See www.epa.govt.nz for approval conditions

Note: The information contained herein is given in good faith, but no warranty, expressed or implied, is made.
Consult Grosafe Chemicals Ltd. for further information.