

Infosafe No™ 3NUV8	Issue Date : September 2015	ISSUED by NUFARMNZ
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Product Name **ChampION++®**

## 1. Identification

<b>GHS Product Identifier</b>	ChampION++®
<b>Product Code</b>	02578
<b>Product Type</b>	Fungicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nz.nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	A protective copper fungicide for the control of many diseases of fruit, vegetables and forestry.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. Hazard Identification

<b>Other Information</b>	6.1D acute toxicant, 6.3B skin irritant, 6.5B sensitiser, 6.9B target organ toxicant, 8.3A eye corrosive, 9.1A aquatic toxicant, 9.3C terrestrial vertebrate toxicant. TOXICITY Harmful- may be harmful if swallowed, inhaled or absorbed through the skin. May cause mild skin irritation, or sensitisation from prolonged skin contact. May cause lung damage from repeated oral exposure at high doses. CORROSIVE Danger-this product is corrosive and may cause eye damage. ECOTOXIC Very toxic to aquatic organisms. Harmful to terrestrial vertebrates.
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## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Ingredients determined to be non-hazardous	-	Balance
	Kaolin clay	1332-58-7	0-15%
	Copper (as copper hydroxide)	20427-59-2	300g/kg

## 4. First-aid measures

<b>First Aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
<b>Eye contact</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if

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**First Aid Facilities** necessary. Remove contact lenses, if present and easy to do so. Seek medical assistance.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Advice to Doctor** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media** Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products** Decomposes to CuO and H<sub>2</sub>O above 60°C. May produce oxides of carbon, nitrogen and sulphur.

**Special Protective Equipment for fire fighters** Full protective clothing and self-contained breathing apparatus.

**Specific Methods** Keep up wind. Do not allow washings to reach sewage or effluent systems.

**Hazchem Code** 2Z

**Other Information** Location Certificate: Not applicable  
Hazardous Atmosphere Zone: Not applicable  
Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

**Spills & Disposal** Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

**Precautions for Safe Handling** Avoid skin and eye contact and inhalation of spray mist or dust.  
APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor.  
TRACKING: Is not required  
RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more is applied within 24 hours.

**Conditions for safe storage, including any incompatibilities** Keep out of reach of children.  
Stores containing 100kg of ChampION++ are subject to signage, and more than 100kg require emergency response plans.  
Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

**Other Information** Always read the label and any attached leaflet before use.  
Aggregate Storage Volume Thresholds:  
When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

**Occupational exposure limit values** No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for copper dusts and mists, as Cu = 1 mg/m<sup>3</sup>

**Appropriate engineering controls** WES TWA for Kaolin=10 mg/m<sup>3</sup> inhalable dust and 2 mg/m<sup>3</sup>, respirable dust.  
Handle in well ventilated areas, generally natural ventilation is adequate.

**Personal Protective Equipment** When opening the container, preparing spray and using the prepared spray wear safety goggles, impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots)

**Hygiene Measures** Do not eat, drink or smoke while using.  
Remove protective clothing and wash hands and face thoroughly before meals and

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 after work. Wash protective clothing daily after work.
 

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## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Dark green, ultra fine granules.
<b>Solubility in Water</b>	Disperses in water.
<b>pH</b>	9.0 - 10.5 (1% solution)
<b>Flammability</b>	Not Flammable.
<b>Other Information</b>	(WG) Water Dispersible Granule

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	Excessive heat.
<b>Incompatible Materials</b>	Strong oxidising agents, alkalis, acids and sulfur.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed. No specific toxicological data is available for this product. Data below is for constituents.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 489mg/kg for copper hydroxide
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >3160mg/kg for copper hydroxide (percutaneous)
<b>Acute Toxicity - Inhalation</b>	LC50 (4hr) 0.56mg/L air for copper hydroxide
<b>Ingestion</b>	Slightly toxic by oral exposure. This material may produce toxicity if ingested in large quantities. Symptoms of over-exposure may include irritation of the gastrointestinal tract, nausea, vomiting, salivation, abdominal pain, hemorrhagic gastritis, diarrhoea, capillary damage, liver and kidney damage and central nervous system depression, which, if severe enough, may lead to death.
<b>Inhalation</b>	Slightly toxic by inhalation. Excessive exposure to copper fume may result in metallic taste, nausea, vomiting, and metal fume fever with chills, fever, aching muscles, dry throat and headache.
<b>Skin</b>	Excessive exposure, especially if prolonged, may produce skin irritation. Repeated exposure may cause itching, erythema (redness) and allergic contact dermatitis. Not a skin absorption hazard.
<b>Eye</b>	May cause severe irritation with possible reversible corneal opacification.
<b>Chronic Effects</b>	Low chronic toxicity unless excessive exposure is encountered. Repeated ingestion of copper salts may result in anaemia, liver, and kidney damage. Chronic inhalation exposure may cause a metallic taste in the mouth, irritation of the upper respiratory tract such as the nasal mucosa that may progress to perforation of the nasal septum. Chronic cough may also occur. Copper hydroxide, which comprises 53.8% of this product, governs the toxicity of the product. The remaining components have low to negligible toxicity. Severely irritating and corrosive to eyes.
<b>Serious eye damage/irritation</b>	
<b>Skin corrosion/irritation</b>	Mild skin irritant
<b>Subchronic/Chronic Toxicity</b>	Target organ toxicant - Lungs
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for copper for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. There is no NOEL or LOEL or safety factor. (Ref: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2014 ).

## 12. Ecological information

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<b>Persistence and degradability</b>	Copper hydroxide is not rapidly degradable
<b>Environmental Fate</b>	The degree of mobility of copper in the environment depends upon the pH of ambient soils and waters. The higher the acidity, the more soluble copper salts are and, hence, the more mobile. Partitioning of copper into air is negligible due to the low vapour pressure of copper salts.
<b>Basis for Assessment</b>	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
<b>Acute Toxicity - Fish</b>	LC50 (96h) Rainbow trout 10mg Cu/L.
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) Daphnia 0.0422mg Cu/L.
<b>Acute Toxicity - Algae</b>	Algae EC50=22.5 mg Cu/L.
<b>Acute Toxicity - Other Organisms</b>	Worms: LC50 (14d)= 677.3 mg/kg soil. Bees: LD50 (oral) 49µg Cu/bee ; (contact) 42.8µg Cu/bee.

### 13. Disposal considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate landfill.

### 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (copper, 30%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2Z
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	Do not carry this product on a passenger service vehicle.  Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

### 15. Regulatory information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P9228 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000739 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 3-1-1

### 16. Other Information

<b>Contact Person/Point</b>	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
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# Safety Data Sheet

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<b>Revisions</b>	First Issue
<b>Highlighted</b>	
<b>Other Information</b>	Not applicable
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