

Infosafe No™ 3NUV8	Issue Date : September 2020	ISSUED by NUFARMNZ
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 Product Name **ChampION++®**

1. Identification

GHS Product Identifier	ChampION++®
Product Code	02578
Product Type	Fungicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	A protective copper fungicide for the control of many diseases of fruit, vegetables and forestry.
Other Information	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

GHS classification of the substance/mixture	DANGEROUS GOODS.
Other Information	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.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	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

First Aid Measures	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.
Inhalation	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.
Ingestion	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.

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Skin	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.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do so. Seek medical assistance.
First Aid Facilities	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 ₂ 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 ³
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Appropriate engineering controls	WES TWA for Kaolin=10 mg/m ³ inhalable dust and 2 mg/m ³ , 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 after work. Wash protective clothing daily after work.

9. Physical and chemical properties

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

10. Stability and reactivity

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

11. Toxicological Information

Toxicology Information	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.
Acute Toxicity - Oral	LD50 (rat) 489mg/kg for copper hydroxide
Acute Toxicity - Dermal	LD50 (rabbit) >3160mg/kg for copper hydroxide (percutaneous)
Acute Toxicity - Inhalation	LC50 (4hr) 0.56mg/L air for copper hydroxide
Ingestion	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.
Inhalation	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.
Skin	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.
Eye	May cause severe irritation with possible reversible corneal opacification.
Chronic Effects	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.

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Serious eye damage/irritation	Severely irritating and corrosive to eyes.
Skin corrosion/irritation	Mild skin irritant
Subchronic/Chronic Toxicity	Target organ toxicant - Lungs
Other Information	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

Persistence and degradability	Copper hydroxide is not rapidly degradable
Environmental Fate	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.
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h) Rainbow trout 10mg Cu/L.
Acute Toxicity - Daphnia	EC50 (48h) Daphnia 0.0422mg Cu/L.
Acute Toxicity - Algae	Algae EC50=22.5 mg Cu/L.
Acute Toxicity - Other Organisms	Worms: LC50 (14d)= 677.3 mg/kg soil. Bees: LD50 (oral) 49µg Cu/bee ; (contact) 42.8µg Cu/bee.

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (copper, 30%)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	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.

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Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P9228
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000739
See www.epa.govt.nz for approval controls.

Packaging & Labelling HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children

16. Other Information

Date of preparation or last revision of SDS September 2015.

Contact Person/Point 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
5 yearly review carried out.

Revisions Highlighted**Other Information** Not applicable

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