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Product Name CUPROFIX® DISPERSS®

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name CUPROFIX® DISPERSS®

Product Code 02601
Product Type Fungicide
Company Name Nufarm NZ

Address 6 Manu Street, Otahuhu Auckland 2024 New Zealand

Emergency Tel. 0800 651 911

 Telephone/Fax
 Tel: 0-9-270 4157

 Number
 Fax: 0-9-270 4159

 Email
 www.nufarm.co.nz

Recommended Use A Bordeaux mixture fungicide formulated into a neutral pH water dispersible

granule for disease control in fruit crops.

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. HAZARDS IDENTIFICATION

Hazard

Classification Classified as Dangerous Goods according to the LTSA New Zealand.

Risk Phrase(s)

Other Information 6.1E acute toxicant, 6.3A skin irritant, 6.4A eye irritant, 6.9B target organ

toxicant, 9.1A aquatic toxicant,

TOXICITY

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation. May cause liver damage from repeated oral exposure at high doses.

ECOTOXIC

Very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Solid

Characterization

Ingredients

Name

CAS

Proportion

Naphthalene

9084-06-4

<15%

9084-06-4 Naphthalene <15% sulfonic acid polymer with formaldehyde, sodium salt Sodium xylene 1300 - 72 - 7<15% sulfonate 1332 - 58 - 7<20% Kaolin clay Copper as 8011-63-0 200g/kg Bordeaux mixture

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.

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water.

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If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eye

Seek medical assistance. necessary.

Facilities storing or utilizing this material should be equipped with an First Aid Facilities

eyewash facility and safety shower.

Treat symptomatically. Copper salts may be corrosive to the oesophagus. Do Advice to Doctor

> NOT induce vomiting. If spontaneous vomiting has occurred or is suspected, gastric intubation is contraindicated. In cases of severe intoxication,

consider chelation therapy with dimercaprol (BAL).

5. FIRE FIGHTING MEASURES

Choose extinguishing media to suit the burning material. Suitable

Water fog, foam, carbon dioxide or dry chemical. **Extinguishing Media**

If involved in a major fire, could evolve oxides of copper or sulphur, calcium Hazards from

sulphate and water. Combustion

Products

Special Protective

Equipment for fire

fighters Specific Methods

Full protective clothing and self-contained breathing apparatus.

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

2.X Hazchem Code

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. 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.

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

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

Other Information

Storage

Keep out of reach of children.

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.

Stores containing 100kg of CUPROFIX DISPERSS are subject to signage, and

more than 100kg require emergency response plans. 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

National Exposure Standards

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

WES TWA for Dust and mists, as $Cu = 1mg/m^3$

Engineering **Controls**

Handle in well ventilated areas, generally natural ventilation is adequate.

Avoid generating and inhaling dusts.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, washable hat, cotton overalls buttoned to

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Material Safety Data Sheet

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the neck and wrist, and boots.

Do not eat, drink or smoke while using. **Hygiene Measures**

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

Solid Form

Blue-green microgranules Appearance

Disperses in water. Not soluble. Solubility in Water

7.0 - 7.5 (dispersed at 1%) nH Value

Vapour Pressure Negligable

1000kg/m³ (natural), 650g/L(tapped) Density

Non combustible material. Flammability

Other Information (WG) Water Dispersible Granule

10. STABILITY AND REACTIVITY

When stored appropriately this product should show no significant degradation **Chemical Stability**

for 2 years from the date of manufacture.

Incompatible Materials

Avoid contact with strong acids, iron, aluminium and its alloys.

Thermal decomposition products include: copper oxide, calcium sluphate and Hazardous water.

Decomposition

Products

Hazardous polymerisation will not occur. Hazardous

Polymerization

11. TOXICOLOGICAL INFORMATION

Not a likely route of exposure due to the physical form of the product. Inhalation

However, care should be taken to avoid the inhalation of excessive amounts of

spray mist during field spraying, respiratory irritation may occur.

Inhalation may be harmful.

Not a likely route of exposure. Ingestion

Possible symptoms of exposure of the concentrate include: vomiting, stomach

pains, symptoms attributed to the central nervous system and kidneys, and

hemolytic crisis accompanied by damage in the liver and brain. The concentrated product may cause slight irritation on contact.

The concentrate may cause irritation of the eyes unless washed off Eye

immediately.

Chronic Effects Prolonged contact may give rise to some skin diseases especially if small

cuts, scratches or abrasions are present or if irritation by contaminated

clothing occurs.

Elementary hygiene precautions will avoid these risks.

Copper Sulphate:

Workers exposed by inhalation have reported irritation of the nose and throat,

occasional ulceration of the nasal septum, and inflammation and diffuse fibrosis of the lungs. Humans exposed to high levels in drinking water have experienced abdominal pain, vomiting, diarrhea, nausea, and a metallic taste

in the mouth.

Acute Toxicity - Oral LD50 (rat) >2,000 mg/kg

Acute Toxicity -

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LD50 (rat) >4,000mg/kg

Dermal

Skin

LC50 (rat) (4hr) 1.97 (male) - 2.02 (female) mg/l Acute Toxicity -

Inhalation

Irritant (rabbit) **Eve Irritation**

Irritant **Skin Irritation**

Not a skin sensitiser (Guinea pig) **Skin Sensitisation**

The Australian Acceptable Daily Intake (ADI) for copper for a human is 0.2 Other Information

mg/kg/day, set for the public for daily, lifetime exposure. There is no NOEL





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or LOEL or safety factor. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety and Environmental Health, 'ADI List', March 2010).

12. ECOLOGICAL INFORMATION

For copper sulfate: **Environmental Fate**

The bioconcentration factor (BCF) in fish is 10-100, indicating a low potential for bioconcentration. The BCF is higher in molluscs, especially oysters, where it may reach 30,000. the biomagnification ration in fish is

less than 1, indicting no biomagnification in the food chain. No

bioaccumulation was obtained from a study of pollutant concentrations in the muscle and livers of 10 mammal species and no evidence of biomagnification in

the food chain was observed.

Copper sprays can cause injury to tender foliage or hasten leaf fall. **Environ. Protection**

Basis for Assessment Data below is for the active ingredient unless otherwise stated.

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is 0.18 mg/l for copper hydroxide sulphate

(active)

Acute Toxicity -

LC50 (48hr) for daphnia is 0.089 mg/l for copper hydroxide sulphate (active).

Daphnia

Algae

Acute Toxicity -

EC50 (96h) Phaeodactylum tricornutum(diatom) is 0.1 - 2ppm for copper

hydroxide sulfate (active)

Acute Toxicity -

Not toxic to bees.

Other Organisms

LD50 (14d) colinus virginianus (northern bobwhite quail) <135mg/kg

Acute LD50 (rat) 100mg/kg bw

13. DISPOSAL CONSIDERATIONS

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

landfill.

Ensure container is completely empty. Burn in an appropriate incinerator if **Container Disposal**

circumstances, such as wind direction, permit. Otherwise crush and bury in an

appropriate landfill.

14. TRANSPORT INFORMATION

It is good practice not to transport agricultural chemical products with **Transport**

food, food related materials and animal feedstuffs. Information

U.N. Number

Proper Shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (copper, 20%)

Name DG Class

2X **Hazchem Code**

Packaging Method TTT **Packing Group**

EPG Number IERG Number 47

IMO Marine

Yes. Environmentally Hazardous Substance mark required.

Pollutant

F-A, S-F **IMDG EMS**

Do not carry more than 3kg of CUPROFIX DISPERSS on a passenger service Other Information

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

Registered pursuant to the ACVM Act 1997, No. P5672 National and or See www.nzfsa.govt.nz/acvm/ for registration conditions

International Approved pursuant to the HSNO Act 1996, Approval Code HSR000605 Regulatory

See www.ermanz.govt.nz for approval controls

Information HARMFUL * ECOTOXIC - keep out of reach of children

Packaging & Labelling

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Hazard Rating NFPA/HMIS: 2-0-0

Systems

Revisions

16. OTHER INFORMATION

IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE **Contact Person/Point**

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766 The SDS was reviewed. Various changes were made to the information.

Section 2 - correction to historical data Highlighted

Section 4, 8, 10, 12 - additional information,

Plus other minor updates

Supersedes SDS issued November 2006 Other Information

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