



Infosafe No™ 3NU13 Issue Date :December 2008 ISSUED by NUFARM CS: 1.4.21

Product Name **Oxydul DF Fungicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Oxydul DF Fungicide  
**Product Code** 5330  
**Product Type** Group Y Fungicide  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
Fax: +61 3 9282-1001  
**Recommended Use** For the control of certain fungal and bacterial diseases in grapevines and other fruit and vegetable crops and ornamentals as per the Directions for Use table on the label.  
**Other Information** This MSDS 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 hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R22 Harmful if swallowed.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S20 When using do not eat or drink.  
**Other Information** Poisons Schedule S6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Copper (present as Copper Oxychloride)	1332-40-7	500 g/kg
	Dispersants and fillers		10-30 %

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, seek medical advice.  
**Ingestion** If swallowed DO NOT induce vomiting.  
Rinse mouth and then drink plenty of water.  
Obtain medical advice.  
**Skin** Wash affected areas thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice if irritation develops or persists.  
**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.  
**Advice to Doctor** Treat symptomatically.  
No specific antidote.  
Remove by gastric lavage. Victim may suffer stomach pains, symptoms



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attributed to the CNS and kidneys, hemolytic crisis accompanied by damage in the liver and brain.

## 5. FIRE FIGHTING MEASURES

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

**Hazards from Combustion** May emit toxic smoke and fumes if involved in fires or exposed to extreme heat.

**Products**

**Special Protective Equipment for fire fighters** Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.

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

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Avoid generating dusts while handling the product and mixing. Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.

**Conditions for Safe Storage** Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** No exposure standard for this product has been set, however, an exposure standard has been set for copper, dusts and mists (as Cu) at 1 mg/m<sup>3</sup>.

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

**Personal Protective Equipment** When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles and disposable dust mask.

**Hygiene Measures** Re-entry period: Do not enter treated area until spray has dried. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Solid

**Appearance** Blue to green microgranules

**Odour** Odourless

**Solubility in Water** Disperses in water.

**pH Value** 6.5 - 7.5 (10% suspension)

**Vapour Pressure** Negligible at 20°C

**Flammability** Non combustible material.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.

**Incompatible Materials** Incompatible with acids, calcium polysulphide, dithiocarbamates, alkaline pesticides such as lime sulphur, dinitro compounds, phosdrin, dimethoate, TMTD (thiram), calcium compounds and mercury compounds.

**Hazardous Polymerization** Hazardous polymerisation is not possible.



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## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Inhalation</b>	Avoid inhalation of spray mist. Excessive exposure to product dust may cause cough, mucous production and shortness of breath, reflecting metal fume fever. Not a likely route of exposure.
<b>Ingestion</b>	Ingestion of large doses of copper salts may result progressively in irritation of the gastrointestinal tract, nausea, vomiting, salivation, gastric pain, hemorrhagic gastritis, diarrhea, capillary damage, liver and kidney damage, and central nervous system stimulation followed by depression. Jaundice, pain in the liver, and hemolytic anemia have been reported following acute human poisonings.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation. Repeated or prolonged contact with the concentrate may lead to irritant contact dermatitis.
<b>Eye</b>	May cause slight irritation to the eyes. Possible symptoms include redness, swelling, tearing and pain.
<b>Chronic Effects</b>	Low chronic toxicity unless excessive exposure is encountered. Excessive exposure to copper by inhalation may result in irritation of the upper respiratory tract which, if severe, may lead to perforation of the nasal septum after long periods of exposure. Repeated ingestion of copper salts may result in anemia, 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 oxychloride, which comprises 87.7% of this product, governs the toxicity of the product. The remaining components have low to negligible toxicity.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1500 mg/kg for the formulated product LD50 (rat) 700 - 800 mg/kg for copper oxychloride
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for copper oxychloride
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >30 mg/l for copper oxychloride
<b>Human Effects</b>	Copper-intolerant individuals should not be exposed to this material. No additional information is available on whether overexposure to this material would aggravate other existing special medical conditions.

## 12. ECOLOGICAL INFORMATION

<b>Environ. Protection</b>	Spray drift should be avoided, read the label for more information. Marine pollutant.
<b>Acute Toxicity - Fish</b>	LC50 (48hr) for rainbow trout is 0.3 mg/l for copper oxychloride
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 0.29 mg/l for copper oxychloride .
<b>Acute Toxicity - Other Organisms</b>	Bees: Toxic to bees. LD50 12 µg/bee.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	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 who hold periodic collections of unwanted chemicals (ChemClear®). Disposal of spent dip: Bury the spent dip 500mm below the ground surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.
<b>Container Disposal</b>	Shake the last amount of product from the bag into application equipment. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.



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## 14. TRANSPORT INFORMATION

**Transport Information Storage and Transport**      It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport. Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

**UN Number (Sea Transport)**      3077

**IMO Class/Packing Group**      Class 9

**IMO Marine Pollutant**      Marine Pollutant

**IMO Proper Shipping Name**      ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Copper Oxychloride)

## 15. REGULATORY INFORMATION

**Poisons Schedule**      S6

**Packaging & Labelling**      POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category**      Harmful

**AICS (Australia)**      All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS**      Revised 11/12/2008

**Contact Person/Point Revisions Highlighted**      Normal Hours: Mr Volker Maier      Phone: +61 3 9282 1000  
After Hours: Shift Supervisor      Phone: 1800 033 498  
The assessment for the product was reviewed and the changes were made to Sections 12, 13 and 14.  
...End Of MSDS...

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