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Infosafe No. 3NU13 Issue Date : January 2005

Product Name : Oxydul DF Fungicide

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name	Oxydul DF Fungicide
Product Code	5330
Product 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.
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Emergency Tel.	24hr 1800 033 498
Telephone/Telex	Tel: (03) 9282-1000 Fax: (03) 9282-1001
Number	
Product Type	Group Y Fungicide
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. COMPOSITION/INFORMATION ON INGREDIENTS

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

3. HAZARDS IDENTIFICATION

Harmful if swallowed.

Other Information Poisons Schedule S6

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 Poisons Information Centre on 13 11 26 (Australia).
Advice to Doctor	Treat symptomatically. No specific antidote. Remove by gastric lavage. Victim may suffer stomach pains, symptoms attributed to the CNS and kidneys, hemolytic crisis accompanied by damage in the liver and brain.

5. FIRE FIGHTING MEASURES

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

Specific Hazards

Hazardous May emit toxic smoke and fumes if involved in fires or exposed to extreme heat. Combustion Products

Protective Equipment Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Spills & DisposalRecover the product by sweeping up or vacuuming without raising dust.
Collect spilled material and waste in sealable open-top type containers for
disposal.Personal ProtectionFor appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE

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.
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

Exposure Limits	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/m3.
Personal Protective	When opening the container, preparing the spray and using the prepared spray, wear
Equipment	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. Re-entry period: Do not enter treated area until spray has dried.
Eng. Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Hygiene Measures	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

Appearance	Blue to green microgranules
Odour	Odourless
Solubility in Water	Disperses in water.
pH Value	6.5 - 7.5 (10% suspension)
Vapour Pressure	Neglible at 20°C
Flammability	Non combustible material.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous	Hazardous polymerisation is not possible.
Polymerization	
Materials to Avoid	Incompatible with acids, calcium polysulphide, dithiocarbamates, alkaline pesticides such as lime sulphur, dinitro compounds, phosdrin, dimethoate, TMTD (thiram), calcium compounds and mercury compounds.

11. TOXICOLOGICAL INFORMATION

ToxicologyNo harmful effects are expected if the precautions on the label and this MSDS areInformationfollowed.InhalationAvoid inhalation of spray mist. Excessive exposure to product dust may cause
cough, mucous production and shortness of breath, reflecting metal fume fever.

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Ingestion	result pro vomiting, damage, 1 by depres	ogressively in irritation of salivation, gastric pain, he iver and kidney damage, and c	tion of large doses of copper salts may the gastrointestinal tract, nausea, morrhagic gastritis, diarrhea, capillary eentral nervous system stimulation followed iver, and hemolytic anemia have been ngs.
Skin	-		e may cause irritation. Ne concentrate may lead to irritant contact
Eye	=	slight irritation to the eye symptoms include redness, sw	
Chronic Effects	Excessive respirator after long Repeated Chronic in the upper perforation Chronic con product, se	ry tract which, if severe, ma g periods of exposure. ingestion of copper salts may nhalation exposure may cause respiratory tract such as th on of the nasal septum. ough may also occur. Copper	exposure is encountered. tion may result in irritation of the upper by lead to perforation of the nasal septum result in anemia, liver and kidney damage. a metallic taste in the mouth, irritation of he nasal mucosa that may progress to oxychloride, which comprises 87.7% of this product. The remaining components have low to
Acute Toxicity - Oral	l LD50 (rat) 1500 mg/kg for the formula t) 700 - 800 mg/kg for coppe	
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for copper oxy	rchloride
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >30 mg/l for copper c	xychloride
Human Effects	No additi	onal information is available	not be exposed to this material. a on whether overexposure to this ng special medical conditions.

12. ECOLOGICAL INFORMATION

Environ. Protection Spray drift should be avoided, read the label for more information. Acute Toxicity - Fish LC50 (48 hr) for carp is 2.2 mg/l for copper oxychloride Acute Toxicity - LC50 (48 hr) for daphnia is 3.5 mg/l for copper oxychloride . Daphnia Acute Toxicity - OtherNot toxic to bees. Organisms

13. DISPOSAL CONSIDERATIONS

Product Disposal	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 (ChemCollect).	
Container Disposal	osal Shake the last amount of product from the bag into application equipment.	
	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.	

14. TRANSPORT INFORMATION

U.N. Number None Allocated



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Proper Shipping	None	Allocated
Name		
DG Class	None	Allocated
Hazchem Code	None	Allocated
Packing Group	None	Allocated
Storage and Transport	t Cons	idered non da
	Dange	aroug Goodg h

15. REGULATORY INFORMATION		
Dangerous Goods by Road and Rail.		
Storage and Transpo	${f rt}$ Considered non dangerous for transport by the Australian Code for the Transport of	
Packing Group	None Allocated	
Hazenem Coue	None Allocated	

Risk Phrase Safety Phrase	R22 Harmful if swallowed. 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.
Poisons Schedule	S6
Hazard Category	Harmful
Packaging &	POISON
Labelling	KEEP OUT OF REACH OF CHILDREN
	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point	Normal Hours:	Mr Volker Maier	Phone: (03) 9282 1000	
	After Hours:	Shift Supervisor	Phone:	1800 033 498	
Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information. The MSDS is now					
	issued in a 16	header format.			
	End Of MSDS				