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Infosafe No. 3NU5V Issue Date : June 2006

ISSUED by NUFARM

Product Name : Throttle Fungicide

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name	Throttle Fungicide
Product Code	5152
Product Type	Group C Fungicide
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/Fax Number	Tel: (03) 9282-1000 Fax: (03) 9282-1001
Recommended Use	For the control of certain fungal diseases of bananas, peanuts, pineapples, stone fruit, sugarcane, wheat and other crops as specified in 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	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)	R22 Harmful if swallowed. R36 Irritating to eyes. R65 Harmful: may cause lung damage if swallowed.
Safety Phrase(s)	S13 Keep away from food,drink and animal feeding stuffs. S2 Keep out of reach of children. S25 Avoid contact with eyes.
<b>Other Information</b>	Poisons Schedule S6

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	CAS	<u>Proportion</u>
	Hydrocarbon Liquid	64742-94-5	654 g/L
	Propiconazole	60207-90-1	250 g/L
	Surfactant	9016-45-9	<10%

## 4. FIRST AID MEASURES

Inhalation	Remove affected person to fresh air until recovered. Obtain medical assistance.
Ingestion	If swallowed DO NOT induce vomiting. Give a glass of water. Do not give anything by mouth to a semi-conscious or unconscious person. 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.



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Advice to Doctor Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis. Pulmonary oedema is possible and may be delayed.

### **5. FIRE FIGHTING MEASURES**

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

 Media

 Hazards from
 If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and Combustion Products

 Speical Protective
 Breathable air apparatus may have to be worn in confined spaces.

 Equipment for fire fighters
 Hazchem Code

 None Allocated
 None Allocated

### 6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Use earthen bunds or absorbent bunding to prevent spreading of spillage.

#### 7. HANDLING AND STORAGE

Precautions for Safe Handling	For personal protective equipment (PPE) and hygiene advice, refer Section 8.
Conditions for Safe Storage	Store in the closed, original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Other Information	Always read the label and any attached leaflet before use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been set for this product or the active ingredients. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m3; 17ppm TWA, as total hydrocarbon.
<b>Engineering Controls</b>	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 cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC, nitrile or neoprene gloves, goggles and disposable fume mask. Re-entry period: Do not enter treated area until spray has dried.
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

Form	Liquid
Appearance	Clear yellow liquid
Odour	Solvent odour
<b>Boiling Point</b>	180°C
Solubility in Water	Disperses in water. Solubility is low, 100 mg/l.
Specific Gravity	0.99
Solubility in Water	Disperses in water. Solubility is low, 100 mg/l.



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Vapour Pressure	2.7 x 10-2 mPa @ 20°C (propiconazole)
Octanol/Water	Kow Log P is 3.72 (propiconazole)
<b>Partition Coefficient</b>	
Flash Point	>60.5°C
Flammability	Combustible liquid C1.

### **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable under normal conditions.
<b>Hazardous Reactions</b>	Keep away from strong oxidising agents.
Hazardous	Hazardous polymerisation is not possible.
Polymerization	

# **11. TOXICOLOGICAL INFORMATION**

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur. Breathing vapour can result in headaches, dizziness and possible nausea.
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.
Skin	Prolonged contact with the concentrate may cause irritation. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
Eye	The concentrate may cause irritation of the eyes.
Reproductive Toxicity	Data indicates no reproductive effects. Data indicates no teratogenic effects.
Mutagenicity	Data indicates no mutagenic effects.
Carcinogenicity	An incidence of liver tumours was noted in long-term studies with propiconazole in rodents. As the mechanism involved is not relevant to humans, and the dose levels were very high, the potential carcinogenic risk to humans in considered negligible.
Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for the product LD50 (rat) 1517 mg/kg for propiconazole
Acute Toxicity - Dermal	LD50 (rat) >4000 mg/kg for propiconazole
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 9.46 mg/l for propiconazole
Eye Irritation	Mild eye irritant.
Skin Irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for propiconazole for a human is 0.04 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 4 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2005).

## **12. ECOLOGICAL INFORMATION**

Persistence /	Average field half life of propiconazole is 40 - 70 days.
Degradability	Propiconazole will slowly degrade in soil and aquatic systems.
Known Harmful	Harmful to fish and other aquatic organisms.
Effects on the	
Environment	



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Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
<b>Environ.</b> Protection	Spray drift should be avoided, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, propiconazole. LC50 (96 hr) for rainbow trout is 5.3 mg/l. LC50 (96 hr) for carp is 6.8 mg/l.
Acute Toxicity - Daphnia	LC50 (96 hr) for daphnia is 4.8 mg/l.
Acute Toxicity - Other Organisms	rBirds: Not toxic to birds. LD50 for japanese quail is 2223 mg/kg LD50 for bobwhite quail is 2825 mg/kg LD50 for mallard duck is >2510 mg/kg Bees: Not toxic to bees. LD50 >100 μg/bee.

### **13. DISPOSAL CONSIDERATIONS**

to dispose collection	
Triple rin for recyc: in landfi drumMUSTED cleaned, n containers rinse the collection If recycl: collection If not rec landfill. If no land specifical vegetation Empty con Returnable	cycling, puncture or shred and bury containers in local authority dfill is available, bury the containers below 500mm in a disposal pit ly marked and set up for this purpose clear of waterways, desirable and tree roots. tainers and product should not be burnt. e containers: empty contents fully into application equipment. Replace e all valves and return to the point of supply for refill or storage.

### **14. TRANSPORT INFORMATION**

Transport Information	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.
U.N. Number	None Allocated
Proper Shipping Name	None Allocated
DG Class	None Allocated
Hazchem Code	None Allocated
Packing Group	None Allocated
<b>Storage and Transport</b> Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.	

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



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## **16. OTHER INFORMATION**

Contact Person/PointNormal Hours:Mr Volker MaierPhone:(03)92821000After Hours:Shift SupervisorPhone:1800033498Revisions HighlightedThe MSDS was reviewed. Minor changes were made to the information....End Of MSDS...