



Infosafe No™ NU0EU Issue Date : August 2010 ISSUED by NUFARM

Product Name **PANOCTINE LIQUID FUNGICIDE**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name PANOCTINE LIQUID FUNGICIDE
Product Code 5095
Product Type Group M7 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 post-harvest diseases of Citrus and Tomatoes.
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.
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
R21/22 Harmful in contact with skin and if swallowed.
R26 Very toxic by inhalation.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately
Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Guazatine (as the acetate salt)	115044-19-4	400 g/L
	Water		to 100%

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
Obtain medical advice.
Ingestion If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
The above first aid instructions are mandated by the Commonwealth Department of Health and Ageing via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone.

Infosafe No™ NUOEU	Issue Date : August 2010	ISSUED by NUFARM
--------------------	--------------------------	------------------

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Skin	All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.
Eye	Wash affected areas thoroughly with soap and water. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Advice to Doctor	Seek medical advice. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Special Protective Equipment for fire fighters	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Breathable air apparatus should be worn when fighting a fire in which panoctine is involved.
Hazchem Code	2X
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

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. On-site disposal of concentrate is not acceptable.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. HANDLING AND STORAGE

Conditions for Safe Storage	Store in the closed, original container in a dry, 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 has been established for this product.
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container and preparing the spray or dip, wear face shield or goggles.
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.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Clear yellow-orange liquid.
Odour	Vinegar odour.
Melting Point	<0°C
Boiling Point	100°C (water)
Solubility in Water	Soluble in water.
Specific Gravity	1.052 at 20°C

Infosafe No™ NU0EU	Issue Date : August 2010	ISSUED by NUFARM
--------------------	--------------------------	------------------

Product Name **PANOCTINE LIQUID FUNGICIDE**

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Vapour Pressure	<10-2 mPa at 50°C for guazatine
Volatile Component	45%
Flash Point	Non Flammable
Flammability	Non flammable.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Excessive heat and fire.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation	May cause irritation to mucous membranes.
Ingestion	The concentrate is harmful if swallowed.
Skin	May irritate the skin.
Eye	Prolonged contact with the concentrate may cause damage to the eye.
Reproductive Toxicity	Data indicates no teratogenic effects.
Carcinogenicity	Data indicates no carcinogenic effects.
Acute Toxicity - Oral	LD50 (rat) 308 mg/kg for guazatine acetates
Acute Toxicity - Dermal	LD50 (rat, percutaneous) >1000 mg/kg for guazatine acetates
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 0.163 mg/l
Eye Irritation	The product is a severe eye irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for guazatine for a human is 0.006 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.625 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 Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Acute Toxicity - Fish	LC50 (96hr) for bluegill sunfish is 0.42 mg/l for guazatine acetate
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 0.15 mg/l for guazatine acetate.
Acute Toxicity - Algae	EC50 (72hr) for Raphidocelis subcapitata 0.0135 mg/l for guazatine.
Acute Toxicity - Other Organisms	LD50 for pigeons (with emetic effect) is 82 mg/kg Bees: Not toxic to bees. LD50 (contact) >200 µg/bee.

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 (ChemClear®). Unused or spent dip should be disposed of carefully to avoid contamination of streams, rivers and waterways. Dispose of dip by pouring into a limed disposal pit set aside for this purpose and clearly marked. Alternatively, spray onto soil or grassed area where runoff to waterways or
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Infosafe No™ NUOEU	Issue Date : August 2010	ISSUED by NUFARM
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Product Name **PANOCTINE LIQUID FUNGICIDE**

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Container Disposal

grazing by animals will not occur.
 Do not use this container for any other purpose.
 Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.
 drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.
 If recycling, replace cap and return clean containers to recycler or designated collection point.
 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.

14. TRANSPORT INFORMATION

U.N. Number	2902
Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S. - (contains guazatine)
DG Class	6.1
Hazchem Code	2X
Packaging Method	3.8.6
Packing Group	II
Storage and Transport	Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
EPG Number	6A5
IERG Number	34
UN Number (Sea Transport)	2902
IMO Class/Packing Group	Class 6.1; Packing Group II
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S.(contains guazatine)

15. REGULATORY INFORMATION

Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category	Very Toxic, Irritant
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 30/07/2010
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The MSDS was reviewed. Various changes were made to the information. Risk and Safety phrases have changed along with information in sections 11 & 12.



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Various minor changes made also.
...End Of MSDS...

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