

Infosafe No™ 3NV01	Issue Date : July 2018	ISSUED by NUFARM
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 Product Name **PANOCTINE LIQUID FUNGICIDE**

Classified as hazardous

1. Identification

GHS Product Identifier	PANOCTINE LIQUID FUNGICIDE
Product Code	0898
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
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the control of post-harvest diseases of citrus, tomatoes and rockmelons as specified in the Directions for Use table on the label.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	OT4 Acute Toxicity - Oral: Category 4 DT4 Acute Toxicity - Dermal: Category 4 Acute Toxicity - Inhalation: Category 2 SC-2 Skin Corrosion/Irritation: Category 2 ED1 Eye Damage/Irritation: Category 1 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation)
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H330 Fatal if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Skull and crossbones, Corrosion, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P261 Avoid breathing spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye and face protection.
Precautionary statement – Response	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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Other Information Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
Poisons Schedule S6

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	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.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. Wash affected areas thoroughly with soap and water.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical. If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
Special Protective Equipment for fire fighters	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, including any incompatibilities	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

Occupational exposure limit values	No exposure standard has been established for this product.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing product for use and using the prepared

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product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves, goggles and a half face piece respirator.

When handling large quantities associated with industrial processing, in enclosed areas, wear elbow length gloves, protective clothing, full face protection and respiratory protection.

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	1.061 at 20°C
pH	6.5
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.
Incompatible Materials	Avoid contact with oxidising agents, acids and bases.
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.
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
Ingestion	The concentrate is harmful if swallowed.
Inhalation	May cause irritation to mucous membranes.
Skin	May irritate the skin.
Eye	Prolonged contact with the concentrate may cause damage to the eye.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	Data indicates no teratogenic effects.

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Serious eye damage/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', March 2016).

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 grazing by animals will not occur.

Container Disposal Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the dip/spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product. 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.

14. Transport information

U.N. Number 2902

UN proper shipping name PESTICIDE, LIQUID, TOXIC, N.O.S. - (contains guazatine)

Transport hazard class(es) 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.

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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

Regulatory Information	WHS Schedule 11, item 34 (acute toxicity, category 2)
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 54002.

16. Other Information

Date of preparation or last revision of SDS	Revised 10/07/2018 Replaces document dated July 2017
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the information. APVMA number in section 15 assigned. ...End Of MSDS...

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