

Infosafe No™ 3NUZG	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **ImazaCure 500 EC Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	ImazaCure 500 EC Fungicide
Product Code	0895
Product Type	Group 3 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 certain post-harvest diseases of citrus, apples, pears, rockmelons and storage diseases of potato tubers as per 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	Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 2A STOT Single Exposure Category 3 (respiratory tract irritation) Toxic to Reproduction: Category 1 Aspiration Hazard: Category 1 Flammable Liquids: Category 4
Signal Word (s)	DANGER
Hazard Statement (s)	Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child May be fatal if swallowed and enters airways. Combustible liquid
General Precautionary Statement (s)	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	Use personal protective equipment as required. Wash hands and exposed skin thoroughly after handling. Wear eye and face protection. Do not eat, drink or smoke when using this product.
Precautionary statement – Response	IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

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Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Imazalil	35554-44-0	500 g/L
	N-methyl pyrrolidone		100 g/L
	N-octyl pyrrolidone	2687-94-7	50 g/L
	Liquid Hydrocarbon		187 g/L
	Other non hazardous ingredients		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 poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. Rinse mouth and then drink plenty of water.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.
Eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical advice immediately if irritation develops or persists. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Hazards from Combustion	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Products	
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
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.
Personal Protection	Wear specified PPE to decontaminate personnel and equipment, or to handle broken packages or containers.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.

7. Handling and storage

Precautions for Safe Handling	Re-Handling: DO NOT re-handle treated fruit until the product has been allowed to dry, unless wearing chemical resistant gloves. See label for further information.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	Safe Work Australia has set the following exposure standard for N-Methyl Pyrrolidone : TLV (TWA) 103 mg/m3, STEL 309. SK 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. The manufacturer of the solvent has recommended an occupational exposure
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Appropriate engineering controls	limit of 525 mg/m ³ ; 100 ppm TWA, as total hydrocarbon. Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and 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	Yellow to Brown clear liquid
Solubility in Water	Soluble in water. Disperses in water.
Specific Gravity	1.108
pH	approx 6
Vapour Pressure	0.158
Flash Point	63°C
Flammability	Combustible Liquid (GHS). Combustible liquid C1. (does not sustain combustion) AS1940.

10. Stability and reactivity

Reactivity	Decomposes upon exposure to light and heating.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Protect from sunlight, open flames and heat sources.
Incompatible Materials	Avoid mixing with strong acids, oxidising agents, reducing agents 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) 500 mg/kg for the formulated product
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for the formulated product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.667 mg/l for the formulated product
Ingestion	Possible symptoms of exposure of the concentrate include: goose bumps, muscle incoordination, hypotension and vomiting.
Inhalation	Breathing in high concentrations of mists or aerosols of this material may cause nausea, headaches and irritation of the nose, throat and respiratory tract.
Skin	May irritate the skin.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	Product is not a skin sensitiser.
Reproductive Toxicity	The solvent, N-methyl pyrrolidone (NMP), may cause effects on the cardiovascular and skeletal systems of developing embryos.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

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Serious eye damage/irritation	Risk of serious damage to eyes.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for imazalil for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.5 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

Persistence and degradability	Half life in soil is typically 50 days.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Acute Toxicity - Fish	The following is data for the active ingredient, imazalil. LC50 (96hr) for rainbow trout is 1.48 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for imazalil is 3.5 mg/l.
Acute Toxicity - Algae	EC50 (72hr) for Raphidocelis subcapitata 0.87 mg/l for imazalil.
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 35.1 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®).
Container Disposal	Dispose of spent dip in an authorised dip disposal facility. 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, 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. DO NOT burn empty containers or product. Dispose of spent dip in an authorised dip disposal facility.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
UN Number (Sea Transport)	For bulk shipments as Class 9, use UN 3082, HazChem code 2X. 3082
IMO Class/Packing Group	Class 9; Packing Group III
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains imazalil 45%)

15. Regulatory information

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Regulatory Information	WHS Schedule 11, item 10 (flammable liquid, category 4)
Poisons Schedule	S5
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: 62246.

16. Other Information

Date of preparation or last revision of SDS 29/06/2017

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498 (Australia only)
+61 3 9282 1331 (Outside Australia)

Revisions Highlighted The SDS was reviewed. Minor changes were made to the information and product has been rebranded.
...End Of MSDS...

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