

Infosafe No™ 3NU27	Issue Date : January 2015	ISSUED by NUFARM
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Product Name **UNITE 720 Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	UNITE 720 Fungicide
Product Code	5787
Product Type	Group M5 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 fungus diseases on almonds, bananas, cucurbits, grapes, ornamentals, peanuts, pulses, stone fruits, tobacco, turf and vegetables 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	CA2 Carcinogenicity: Category 2 GT/VT/IT 2 Acute Toxicity - Inhalation: Category 2 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) ED1 Eye Damage/Irritation: Category 1 SS-1 Sensitization - Skin: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H351 Suspected of causing cancer. H330 Fatal if inhaled. H335 May cause respiratory irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.
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)	Corrosion, Health hazard, Skull and crossbones, Exclamation mark



Precautionary statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mists or spray. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P272 Contaminated work clothing should not be allowed out of the workplace. P308+P313 IF exposed or concerned: Get medical advice/attention. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Other Information	Poisons Schedule S6

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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chlorothalonil	1897-45-6	720 g/L
	Other ingredients (considered non-hazardous)		Balance

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. If vomiting occurs, give more water to drink to assist dilution.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. Persons having allergic reactions respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus must be worn when fighting a fire in which this product is involved.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
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. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8. If product has dried out and the possibility of dust generation exists, wear a suitable respirator.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
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Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Other Information	Store in a locked enclosure. 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 propylene glycol : TLV (TWA) 474 mg/m ³ , STEL -.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Respiratory Protection	Do not inhale spray mist.
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 gloves and goggles and appropriate 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	White opaque liquid
Solubility in Water	Disperses in water.
Specific Gravity	1.354
Vapour Pressure	0.076 mPa @ 25°C for chlorothalonil.
Volatile Component	~40%
Partition Coefficient: n-octanol/water	Kow Log P is 2.92 (25°C, chlorothalonil)
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5,000 mg/kg for chlorothalonil
Acute Toxicity - Dermal	LD50 (rat) >5,000 mg/kg for chlorothalonil
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 0.1 mg/l for chlorothalonil
Ingestion	May cause irritation to mouth, throat and stomach. Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
Inhalation	Not a likely route of exposure when 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.
Skin	May irritate the skin. Prolonged or repeated exposure may cause skin sensitisation.
Eye	The concentrate will cause severe irritation and possible damage unless washed

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Skin Sensitisation	off immediately. Chlorothalonil is a skin sensitiser.
Carcinogenicity	Chlorothalonil is classified as a suspected human carcinogen based on limited evidence from animal studies.
Reproductive Toxicity	Data indicates no reproductive effects.
Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of chlorothalonil. Reports of human experience in use of chlorothalonil based products demonstrate that some individuals become sensitive to contact with this compound.
Serious eye damage/irritation	The product is an eye irritant.
Respiratory Irritation	The product is a respiratory irritant.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for chlorothalonil for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.5 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', June 2014).

12. Ecological information

Persistence and degradability	Average field half life of chlorothalonil is 7 - 30 days. Adsorption studies indicate that chlorothalonil has very low mobility. In water, half life for chlorothalonil is 4.5 hours to 9 days.
Known Harmful Effects on the Environment	Highly toxic to fish and aquatic organisms.
Environmental Protection	Marine pollutant.
Acute Toxicity - Fish	The following is data for the active ingredient, chlorothalonil. LC50 (96hr) for rainbow trout is 0.043 mg/l. LC50 (96hr) for bluegill sunfish is 0.059 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia magna is 70 µg/l
Acute Toxicity - Algae	EC50 (120hr) for Selenastrum capricornutum is 210 µg/l.
Acute Toxicity - Other Organisms	The following data is for the active ingredient, chlorothalonil. Not toxic to bees. Birds: Not toxic to birds. LD50 for mallard ducks is >4,640 mg/kg

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	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the 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. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

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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

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 2Z. 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 Chlorothalonil)

15. Regulatory information

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: 58564.

16. Other Information

Date of preparation or last revision of SDS	Reviewed on 16/01/2015 This SDS replaces document dated July 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 SDS was reviewed to include GHS requirements. ...End Of MSDS...

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