

Infosafe No™ 3NUM9	Issue Date : November 2020	RE-ISSUED by NUFARM
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 Product Name **Lancer® 970 Insecticide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Lancer® 970 Insecticide
<b>Product Code</b>	1064
<b>Product Type</b>	Group 1B Insecticide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>E-mail Address</b>	SDSANZ@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	For the control of certain insect pests on bananas, crucifers, macadamias, ornamentals, potatoes, tobacco and tomatoes as specified in the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	OT4 Acute Toxicity - Oral: Category 4
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed.
<b>Precautionary statement – General</b>	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.
<b>Pictogram (s)</b>	Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.
	
<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Precautionary statement – Response</b>	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Acephate	30560-19-1	970 g/kg
	Non-hazardous ingredients		<5%

## 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice immediately. If breathing is difficult, oxygen may be given by a trained person.
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<b>Ingestion</b>	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.
<b>Skin</b>	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	An anticholinesterase compound. Artificial respiration should be started at the first sign of respiratory failure. Cautious administration of fluids is advised, as well as general supportive and symptomatic pharmacological treatment and absolute rest. As early as possible, administer 2 mg of atropine sulfate i.v. and 1000-2000 mg of pralidoxime chloride or 250 mg of obidoxime chloride (adult dose) i.v. to patients suffering from severe respiratory difficulties, convulsions, and unconsciousness. Repeated doses of 2 mg of atropine sulfate should be given, as required, based on the respiration, blood pressure, pulse frequency, salivation, and convulsion conditions. The dose and the frequency of atropine varies with each patient, but the patient should remain fully atropinised (signs include dilated pupils, dry mouth, skin flushing). Diazepam should be given in all but the mildest cases in doses of 10 mg, s.c. or i.v., which may be repeated as required. For children, the doses are 0.04-0.08 mg of atropine/kg body weight, 250 mg of pralidoxime chloride per child, or 4-8 mg of obidoxime chloride/kg body weight. Morphine, barbiturates, phenothiazine derivatives, tranquillizers, and all kinds of central stimulants are contraindicated.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it will emit phosphorous, nitrogen and possibly sulphur.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. 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.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, well ventilated area out of direct sunlight.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standards have been set for this product or the active ingredients.
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<b>Appropriate engineering controls</b>	Use in a well ventilated area only. Avoid generation of dust when handling solid. If dust generation is unavoidable, use forced draft to keep dust away from operator, or wear suitable dust respirator.
<b>Personal Protective Equipment</b>	When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.
<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	White granule
<b>Odour</b>	Unpleasant sulfurous odour
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.35
<b>pH</b>	4 - 5 in a 5% solution
<b>Vapour Pressure</b>	0.226 mPa @ 25°C
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is -0.85
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatible Materials</b>	Avoid contact with alkaline materials.
<b>Possibility of hazardous reactions</b>	Contact with alkaline materials, including hypochlorite bleaches may produce poisonous gases.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat, male) 688 mg/kg LD50 (rat, female) 1127 mg/kg Acephate is extensively metabolised to methamidaphos in insects and plant. Conversion to methamidaphos in mammals is limited.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >15 mg/l
<b>Ingestion</b>	Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
<b>Inhalation</b>	Symptoms of exposure by inhalation are similar to those described for ingestion.
<b>Skin</b>	Mild skin irritant but not harmful by dermal exposure.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.

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<b>Carcinogenicity</b>	The US EPA has classified acephate as Group C (possible human carcinogen, limited carcinogenicity in animals in the absence of human data) based on an increased incidence of liver carcinoma and adenoma in female mice (although only at very high doses in the female) and liver tumours in female rats and mice, at doses of 10 mg/kg/day in a long term study.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects.
<b>Chronic Effects</b>	Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases. Chronic exposure can cause damage to the liver.
<b>Serious eye damage/irritation</b>	Mild eye irritant.
<b>Mutagenicity</b>	The weight of evidence indicates that acephate does not present a mutagenic risk.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for acephate for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.25 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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', March 2020).

## 12. Ecological information

<b>Persistence and degradability</b>	Half life in soil is typically 3 days.
<b>Bioaccumulative Potential</b>	Risk of bioaccumulation in aquatic species is low.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not spray on vegetation where honeybees are foraging.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, acephate. LC50 (96hr) for rainbow trout is 110 mg/l
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) is 67.2 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Bees: Toxic to bees. LD50 1.2 µg/bee. Should not be applied while bees are actively foraging. LC50 (96hr) for mallard ducks is 350 mg/l

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Single rinse before disposal. Add rinsings to spray tank Puncture and bury empty containers in a 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

<b>Storage and Transport</b>	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

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<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 59305.

## 16. Other Information

**Date of preparation or last revision of SDS** November 2020

**Contact Person/Point** Normal Hours: SDS Coordinator Phone: +61 3 9282 1000  
 After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The SDS was reviewed to include GHS requirements.

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