

Infosafe No™ 3NUZI	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **IMIDAN Insecticide/Miticide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	IMIDAN Insecticide/Miticide
<b>Product Code</b>	1135
<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 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of blue oat mite, red legged earth mite and lucerne flea as per 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>	Carcinogenicity: Category 2 Acute Toxicity - Oral: Category 4 Aspiration Hazard: Category 1 STOT Single Exposure Category 3 (narcotic) STOT Single Exposure Category 1 Flammable Liquids: Category 4
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	Suspected of causing cancer. Harmful if swallowed. May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness. May cause damage to organs. Combustible liquid
<b>General Precautionary Statement (s)</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe vapours or spray.
<b>Precautionary statement – Response</b>	IF EXPOSED or if you feel unwell: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

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Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Phosmet	732-11-6	150 g/L
	Liquid Hydrocarbons	64742-94-5	568 g/L
	Cyclohexanone	108-94-1	10-30 %
	Emulsifiers		0-10 %

#### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<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. Seek immediate medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
<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>	Vomiting may cause pulmonary aspiration. The stomach should be emptied as soon as possible by careful gastric lavage (using a cuffed endotracheal tube already in place). 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 major fire, could evolve oxides of sulphur or phosphorous.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to 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>	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect in sealed open top containers for disposal. Dispose of at a landfill in accordance with local regulations. Addition of lime to contaminated soils will increase the rate of phosmet destruction.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.

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<b>Clean-up Methods - Large Spillages</b>	Place damaged containers in recovery bins (if available) and return to manufacturer.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<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. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
<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 biological exposure limit allocated. No exposure standard for this product has been set, however, an exposure standard has been set for cyclohexanone (by Safe Work Australia) at 100 mg/m <sup>3</sup> . The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 15ppm TWA, as total hydrocarbon.
<b>Other Exposure Information</b>	EU. exposure standards for cyclohexanone are TWA 40mg/m <sup>3</sup> , STEL 80 mg/m <sup>3</sup> .
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	If exposure to vapour or spray is expected, a half face respirator with cartridge type A is recommended.
<b>Personal Protective Equipment</b>	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.
<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>	Liquid
<b>Appearance</b>	Pale yellow liquid
<b>Odour</b>	Characteristic odour
<b>Boiling Point</b>	N/A
<b>Solubility in Water</b>	Disperses in water. Not soluble.
<b>Specific Gravity</b>	1.026
<b>pH</b>	6.7 (5% in water)
<b>Vapour Pressure</b>	0.065 mPa (25°C) for Phosmet
<b>Vapour Density (Air=1)</b>	N/A
<b>Volatile Component</b>	Approx 80%
<b>Surface Tension</b>	8.4 mN/m
<b>Flash Point</b>	63-65°C
<b>Flammability</b>	Combustible liquid C1. (does not sustain combustion) AS1940. Combustible Liquid (GHS).
<b>Flammable Limits - Lower</b>	N/A
<b>Kinematic Viscosity</b>	9.7 x 10 <sup>-6</sup> m <sup>2</sup> /sec

## 10. Stability and reactivity

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<b>Chemical Stability</b>	Stable under normal conditions. Hydrolyses at pH >7.
<b>Incompatible Materials</b>	Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 112 - 160 mg/kg for phosmet
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >5,000 mg/kg for phosmet
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (1hr) 2.76 mg/l for phosmet
<b>Ingestion</b>	The concentrate is harmful if swallowed.
<b>Inhalation</b>	A moderate hazard exists from inhalation of spray and care should be taken to avoid inhalation of spray mists. Breathing vapour can result in headaches, dizziness and possible nausea.
<b>Skin</b>	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Chronic Effects</b>	Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases. Symptoms of over-exposure are exhaustion, headache, weakness, confusion, vomiting, abdominal pain, excessive sweating and salivation.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for phosmet 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 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

<b>Known Harmful Effects on the Environment</b>	Phosmet is toxic to fish. Phosmet is toxic to bees.
<b>Other Precautions</b>	Do not spray on vegetation where honeybees are foraging. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Marine pollutant. Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, phosmet. LC50 (96hr) for bluegill sunfish is 0.07 mg/l. LC50 (96hr) for rainbow trout is 0.23 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Dietary LC50 (5d) for bobwhite quail is 507 mg/kg Bees: Toxic to bees. LD50 1 µg/bee.

## 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. 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

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symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

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, 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.

Empty containers and product should not be burnt.

## 14. Transport information

<b>Transport Information Storage and Transport</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. 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.
<b>UN Number (Sea Transport)</b>	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phosmet)

## 15. Regulatory information

<b>Regulatory Information</b>	WHS Schedule 11, item 10 ( flammable liquid, category 4 )
<b>Poisons Schedule</b>	S6
<b>National and or International Regulatory Information</b>	There is a legislative requirement in most States in Australia for workers to be medically monitored when using organophosphates, by:- 'estimation of red cell and plasma cholinesterase activity towards the end of the day on which organophosphates have been used'. Ref: Control of Workplace Hazardous Substances, NOHSC:1005.
<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: 46192.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	29/06/2017
<b>Contact Person/Point</b>	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
<b>Revisions Highlighted</b>	The SDS was reviewed. Minor changes were made to the information and product has been rebranded. ...End Of MSDS...

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