



Infosafe No™ NUOHT	Issue Date : February 2012	ISSUED by NUFARM
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Product Name **IMIDAN Insecticide/Miticide**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name IMIDAN Insecticide/Miticide
Product Code 1135
Product Type Group 1B Insecticide
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address Unit 15/16 Metroplex Avenue Murarrie
 Queensland 4172 Australia
Emergency Tel. 1800 033 498 (24hr Australia)
Telephone/Fax Number Tel: +61 7 3909 2000
 Fax: +61 7 3909 2010
Recommended Use For the control of blue oat mite, red legged earth mite and lucerne flea as per the directions for use table.
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
 HAZARDOUS SUBSTANCE.
 NON-DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Classified as hazardous
 R22 Harmful if swallowed.
Safety Phrase(s) S2 Keep out of reach of children.
 S20 When using do not eat or drink.
 S23 Do not breathe gas/fumes/vapour/spray
Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

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 %

Substance Chemical Family Organophosphate

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
 If symptoms develop or persist, seek 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.
 The above first aid instructions are mandated by the Commonwealth Department of Health and Ageing via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about one teaspoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone.



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Skin	All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person. Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. Seek immediate medical advice.
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	An anticholinesterase compound. If the material is dissolved in solvents, e.g., petroleum solvents, vomiting may cause pulmonary aspiration. Instead, 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

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a major fire, could evolve oxides of sulphur or phosphorous.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Emergency Action in case of Fire	If exposed to fire, keep container cool by spraying with water.
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 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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. HANDLING AND STORAGE

Conditions for Safe Storage	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.
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Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards 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/m³.
The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 15ppm TWA, as total hydrocarbon.

Other Exposure Information EU. exposure standards for cyclohexanone are TWA 40mg/m³, STEL 80 mg/m³.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Respiratory Protection If exposure to vapour or spray is expected, a half face respirator with cartridge type A is recommended.

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.

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 Pale yellow liquid

Odour Characteristic odour

Boiling Point N/A

Solubility in Water Disperses in water. Not soluble.

Specific Gravity 1.026

pH Value 6.7 (5% in water)

Vapour Pressure 0.065 mPa (25°C) for Phosmet

Vapour Density (Air=1) N/A

Volatile Component Approx 80%

Surface Tension 8.4 mN/m

Flash Point 63-65°C

Flammability Combustible liquid C1.

Flammable Limits - Lower N/A

Kinematic Viscosity 9.7 x 10⁻⁶ m²/sec

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Hydrolyses at pH >7.

Incompatible Materials Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.

Hazardous Reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION



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Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation	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.
Ingestion	The concentrate is harmful if swallowed.
Skin	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
Eye	The concentrate may cause irritation of the eyes.
Chronic Effects	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.
Acute Toxicity - Oral	LD50 (rat) 112 - 160 mg/kg for phosmet
Acute Toxicity - Dermal	LD50 (rabbit) >5,000 mg/kg for phosmet
Acute Toxicity - Inhalation	LC50 (rat) (1hr) 2.76 mg/l for phosmet
Skin Sensitisation	Product is not a skin sensitiser.
Other Information	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 and Environmental Health, 'ADI List', June 2011).

12. ECOLOGICAL INFORMATION

Known Harmful Effects on the Environment	Phosmet is toxic to fish. Phosmet is toxic to bees.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environ. Protection	Marine pollutant.
Acute Toxicity - Fish	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.
Acute Toxicity - Other Organisms	Dietary LC50 (5d) for bobwhite quail is 507 mg/kg Bees: Toxic to bees. LD50 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	Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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. 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.



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14. TRANSPORT INFORMATION

Transport Information Storage and Transport 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.

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 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phosmet)

15. REGULATORY INFORMATION

Poisons Schedule S6

National and or International Regulatory Information 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.

Packaging & Labelling POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).
APVMA product number 46192.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Revised 09/02/2012.
This document replaces SDS dated February 2007.

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Various changes were made to the information. Sections - 4, 5, 8, 9, 14, 15 and 16.
...End Of MSDS...

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