

Infosafe No™ 3NU2C	Issue Date : June 2016	ISSUED by NUFARM
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 Product Name **FENITROTHION 1000 Insecticide**

Classified as hazardous

1. Identification

GHS Product Identifier	FENITROTHION 1000 Insecticide
Product Code	1200
Product Type	Group 1B Insecticide
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 various insects pests crops and pastures as per the Directions of 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	OT4 Acute Toxicity - Oral: Category 4 DT4 Acute Toxicity - Dermal: Category 4 ED2A Eye Damage/Irritation: Category 2A SC-2 Skin Corrosion/Irritation: Category 2 SE-2 STOT Single Exposure Category 2 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) FL2 Flammable Liquids: Category 2
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H318 Causes serious eye damage. H315 Causes skin irritation. H371 May cause damage to organs. H336 May cause drowsiness or dizziness. H226 Flammable liquid and vapour.
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)	Exclamation mark, Flame, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention

P264 Wash hands and exposed skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves, clothing, eye and face protection.
 P260 Do not breathe vapours or spray.
 P271 Use only outdoors or in a well-ventilated area.
 P210 Keep away from heat. - No smoking.
 P233 Keep container tightly closed.

Precautionary statement – Response

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P330 Rinse mouth.
 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.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P362 Take off contaminated clothing and wash before reuse.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 Poisons Schedule S6

Other Information

3. Composition/information on ingredients

Chemical Liquid

Characterization

Ingredients	Name	CAS	Proportion
	Fenitrothion	122-14-5	1000 g/L
	Mixed proprietary surfactants	Mixture	100-200 g/L
	Xylene	1330-20-7	50-100 g/L

4. First-aid measures

Inhalation Remove patient to fresh air. Obtain 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.

Skin Remove contaminated clothing and launder before re-use.
Wash affected areas thoroughly with soap and water.

Eye contact If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice if irritation develops or persists.

First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

Advice to Doctor 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

Suitable extinguishing media Water, 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.

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Hazchem Code 2W

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.
Dilute caustic soda or soda ash or lime for final clean up ONLY.

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

Precautions for Safe Handling Handling large quantities associated with industrial processing of this product may require additional controls including use of explosion proof electrical equipment, use of non-sparking tools or precautions against static discharge.

Conditions for safe storage, including any incompatibilities Store in the closed, original container in a cool, well ventilated area.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

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 No biological exposure limit allocated.
No exposure standards have been set for this product.
Safe Work Australia has set the following exposure standard for Xylene : TLV (TWA) 350 mg/m3, STEL 655 mg/m3.

Appropriate engineering controls Handle in well ventilated areas, generally natural ventilation is adequate. The vapour concentration of the solvent can exceed the statutory limits for workplaces. The flashpoint of the product is 34°C, therefore on hot days vapour can build up in confined spaces and may track some distance to an ignition source.

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 face shield or goggles.

When using in enclosed areas, wear goggles and half face piece respirator with combined dust and gas cartridge.

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 Clear, amber liquid

Odour Characteristic odour

Melting Point <0°C

Boiling Point 138°C for solvent. Fenitrothion decomposes at >140°C

Solubility in Water Disperses in water. Not soluble.

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Specific Gravity	1.24 @ 20°C
pH	4 - 5 (1% in deionised water)
Vapour Pressure	18mPa @ 20°C for fenitrothion
Vapour Density (Air=1)	3.2
Volatile Component	approx 10%
Flash Point	34°C (c.c.)
Flammability	Flammable.
Auto-Ignition Temperature	~480°C
Flammable Limits - Lower	Lower 1.2
Flammable Limits - Upper	Upper 7.1

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
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) 330 mg/kg for fenitrothion
Acute Toxicity - Dermal	LD50 (rat) 1077 mg/kg for fenitrothion
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >2.21 mg/l
Ingestion	The concentrate is harmful if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Inhalation	Not a likely route of exposure when handling the concentrate.
Skin	When applying the product as a spray avoid breathing in spray mist. Readily absorbed even through unbroken skin and considered the most dangerous toxic route. Negligible damage to skin is expected to occur especially when related to the hazard from absorption.
Eye	Will cause irritation, and absorption into the body system may also be significant.
Skin Sensitisation	Product is not a skin sensitiser.
Chronic Effects	Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.
Skin corrosion/irritation	Not a skin irritant.
Human Effects	Acute Over Exposure: It should be noted that fenitrothion is a compound of relatively low mammalian toxicity. Exposure to excessive amounts could cause intestinal cramps, tightness of the chest, blurred vision, headache, diarrhea, salivation and convulsions. Difficulty in breathing may be experienced, due either to congestion of the lungs or weakness of the respiratory muscles. In very severe cases of poisoning, muscle spasm, unconsciousness and convulsions may develop and death may result from respiratory failure.
Other Information	The Australian Acceptable Daily Intake (ADI) for fenitrothion for a human is 0.002 mg/kg/day, set for the public for daily, lifetime exposure. This is

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based on the NOEL of 0.2 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', December 2015).

12. Ecological information

Persistence and degradability	Average field half life of fenitrothion is 2.7 days.
Known Harmful Effects on the Environment	The product is a marine pollutant for sea transport. Fenitrothion is toxic to fish.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, fenitrothion. LC50 (96hr) for rainbow trout is 1.3 mg/l.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia magna is 0.0086 mg/l.
Acute Toxicity - Other Organisms	Bees: Toxic to bees. LD50 0.16 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 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. 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

U.N. Number	3017
UN proper shipping name	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE - (Fenitrothion)
Transport hazard class(es)	6.1
Sub.Risk	3
Hazchem Code	2W
Packaging Method	3.8.6
Packing Group	III
Storage and Transport EPG Number	Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. 6C3
IERG Number	17
UN Number (Sea Transport)	3017

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IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, PLAMMABLE, N.O.S. (contains Fenitrothion)

15. Regulatory information

Regulatory Information	WHS Schedule 11, item 7 (flammable liquid category 2)
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 acivity 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
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 32986.

16. Other Information

Date of preparation or last revision of SDS	Revised 30/06/2016. This SDS replaces document dated May 2015.
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. Various changes were made to the information. ...End Of MSDS...

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