

SAFETY DATA SHEET

NEMACUR®

Date of Issue: 17th June 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	Fenamiphos
Recommended use:	Nematicide
Supplier:	UPL New Zealand Limited PO Box 51584, Pakuranga Auckland Phone 0800 100 325 www.upl-ltd.com/nz
Emergency telephone number:	0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION



Hazard Classification:

3.1D, 6.1B, 6.3B, 6.4A, 6.9A, 9.1A, 9.2D, 9.3A, 9.4A

Any person purchasing, handling or disposing of this product must be suitably qualified. A Certified Handler qualification is required.

TRACKING: A record must be kept of the use and disposal of this Product.

Required identification Details:

Signal Word: DANGER

Keep out of reach of Children.

Read label before use.

Combustible liquid.

Fatal if swallowed.

Toxic in contact with skin.

Harmful if inhaled.

Causes serious eye irritation.

Causes damage to organs through prolonged or repeated exposure.

Hazardous to the soil environment.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

Very toxic to aquatic life, with long lasting effects.

Precautionary statement(s)

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison centre/doctor.
IF exposed or concerned: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse.
Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Fenamiphos	22224-92-6	40%
Hydrocarbon solvent	64742-94-5	20 - 30%
Propylene glycol	57-55-6	10 – 20%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

Effects and symptoms

No case of human poisoning due to this product is on record.

First-aid measures

Inhalation:

Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary.

Ingestion:

Wash out mouth with water. Do NOT induce vomiting. Give a glass of water. Transport patient to doctor or hospital quickly.

Skin contact:

If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.

Eye contact:

If product gets in eyes wash it out immediately with water.

Workplace facilities:

No specific facilities required. Standard emergency equipment must be available.

Hygiene Practices:

Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed

skin thoroughly with soap and water before meals and after work.
Wash protective clothing daily after work.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Water spray, foam, dry chemical, carbon dioxide, sand.
Hazardous thermal (de)composition products:	In a fire, hydrogen cyanide, carbon monoxide, phosphorus pentoxide, sulphur dioxide and nitrogen oxides may be formed.
HAZCHEM Code:	2X
Protection of fire-fighters:	When fighting a major fire wear an air-supplied respirator. Wear protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental precautions:	Washings must be prevented from entering surface water drains or waterways.
Methods for cleaning up:	Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance with all local authority requirements. <ul style="list-style-type: none">• For quantities up to 50L of product bury in a secure approved landfill site.• For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.
Procedures for disposal:	Decontaminate the spill area with detergent and water and Rinse with the smallest volume of water practicable. a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. b) Product or unused spray mix should be disposed of according to label instructions.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Storage:	Store in a cool, dry, well ventilated place and protect from sunlight.
Packaging materials:	Store in original container, tightly closed, away from foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards: None set.

Engineering measures

Exposure control measures: Ensure good ventilation is available.

Personal Protective Equipment

Detail specifications for equipment: Wear suitable protective clothing.

Any person who is mixing, loading or applying the substance, or entering an application area within the REI (of 48 hours), must wear full protective clothing such as chemical resistant coveralls, chemical resistant gloves, chemical proof hat and rubber gumboots plus socks when using.

Full Respiratory and eye protective equipment must be worn when mixing and applying. Use a full face mask fitted with type 'A' filters for use with organic vapours.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

May be harmful if swallowed, inhaled or absorbed through the skin
Avoid skin contact or inhalation. Avoid contact with the eyes.

Warnings and restrictions:

The person applying this substance must not cause adverse effects beyond the boundary of the treated property, and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records (i.e. in spray diaries).

Records of use must be kept. The maximum application rate is 20L of product / ha and this product can be applied only once per crop cycle. Aerial application of Nemacur is not permitted.

This product is very toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees at the time of application or immediately after application until spray has dried or in areas where bees are foraging.

Restricted Re-entry Interval:

The REI for Nemacur is 48 hours after application. The person in charge of the application area is responsible for making sure that no person re-enters the treated area until the end of the REI. A person may re-enter the treated area before the end of the REI if full PPE & RPE is worn as if that person is applying the substance.

Notification of use:

Written notice must be given to anyone likely to be directly affected by the application, these persons include occupiers and owners of land, dwellings or buildings or property that is immediately abutting the application area.

Respiratory system:

Where insufficient ventilation, use suitable respiratory protection.

Skin and body:

Hands:

Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately.

Eyes:

Wear chemical goggles/face protection.

General hygiene:

Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hands before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.

Clear yellow solution. Aromatic, chemical odour.

pH:

5.0 to 6.0 (1% in water)

Vapour Pressure:

Not available.

Boiling Point:

Not known.

Vapour density:

> 1.00 – hydrocarbon solvent.

Freezing/melting point:

Solubility:

Emulsifies in water.

Specific Gravity:

1.05gm/cm³ @ 20°C

Information for flammable material:

- Lower and upper flammability limits
 - Flashpoint (state test Method) > 66°C
- Auto – ignition Temperature: 371°C (estimated)
- Octanol/water partition coefficient:
- Explosive Properties:
- Oxidation Properties:

10. STABILITY AND REACTIVITY

Stability:	Stable under standard conditions.
Conditions to avoid:	Excessive heat.
Materials to avoid:	Oxidizing agents, bases.
Hazardous Decomposition Products:	In a fire, phosphorus pentoxide, sulphur dioxide, carbon monoxide, and nitrogen oxides may be formed.
Hazardous reactions:	Chloride compounds and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	LD ₅₀ : rat 10 mg/kg (similar formulation)
Acute toxicity - Dermal:	LD ₅₀ : rat 161 - 208mg/kg (similar formulation)
Acute toxicity – Inhalation:	LC ₅₀ : rat 132- 198mg/km ³ (4h) (similar formulation)
Skin irritation:	Slightly irritating (rabbit) (derived from the ingredients)
Mucous membranes:	Slightly irritating (derived from the ingredients).
Sensitization:	Fenamiphos is not a skin sensitizer.
Chronic toxicity	
Carcinogenicity:	
Mutagenicity:	
Reproduction toxicity:	

12. ECOLOGICAL INFORMATION

For Fenamiphos:

Ecotoxicity

Aquatic:

LC₅₀: 0.0093mg/l (96h); bluegill sunfish (*Lepomis macrochirus*)
LC₅₀: 0.0721mg/l (96h); trout (*Oncorhynchus mykiss*)
EC₅₀: 0.0019mg/l (48h); Water flea (*Daphnia magna*)
IC₅₀: >10mg/l (72h); Green algae (*Scenedesmus subspicatus*)

Bacteria:

EC₅₀: 2030mg/l (96h); activated sludge

Bees

Earthworms

Birds

LD₅₀: 0.7 to 1.6mg/kg; bobwhite quail
LD₅₀: 0.9 to 1.2mg/kg; mallard ducks

Bioaccumulation:

Degradability:

Mobility:

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Dispose of this product only by using according to the label, at an approved landfill or other approved facility.
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Empty container precautions: Triple rinse the empty container adding rinsate to the spray tank. Recycle if possible. Otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

14. TRANSPORT INFORMATION - International transport regulations

UN number: UN3018

Class or Division: 6.1
Subsidiary Class: 9
Packing Group: II
Marine Pollutant: Yes
Proper shipping name: Proper shipping name: ORGANOPHOSPHOROUS PESTICIDE, LIQUID, TOXIC (fenamiphos)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): Classified as Dangerous Goods

15. REGULATORY INFORMATION

ACVM Registered Number: P002690
HSNO Approval Code: HSR000956

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 1st July 2015
Revision Date: 17 June 2021
Replaces: ES385

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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