

SAFETY DATA SHEET

FENAFOS 400 Organophosphate Insecticide

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	Fenamiphos
Chemical Family:	Organophosphate
Recommended use:	Nematicide
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

HSNO Classifications:	3.1D, 6.1B, 6.1C, 6.1D, 6.3B, 6.4A, 6.9A, 9.1A, 9.2D, 9.3A, 9.4A
Required identification Details:	3.1D: COMBUSTIBLE LIQUID - Keep away from sources of ignition. 6.1B: TOXIC – may be fatal if swallowed, inhaled or absorbed through the skin. 6.1C: As above 6.1D: As above 6.3A: WARNING - may cause skin irritation 6.4A: WARNING - may cause eye irritation 6.9A: TOXIC – may cause target organ damage from repeated oral exposure at high doses. 9.1A: VERY TOXIC to aquatic organisms with long lasting Effects. 9.2D: HARMFUL to the soil environment 9.3A: Very Toxic to terrestrial vertebrates 9.4A: Very Toxic to terrestrial invertebrates

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	40%
Napthalene	91-20-3	0.25%

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:

If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Ingestion:

Wash out mouth with water. Keep patient at rest. DO NOT induce vomiting. Transport patient to doctor quickly.

Skin contact:

Immediately remove contaminated clothing. Wash affected areas with soap and water. Seek urgent medical aid. Persons assisting the patient should protect themselves from contamination.

Eye contact:

If concentrate gets in the eyes, flush with running water for at least 15 minutes and obtain urgent medical aid.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2X

Extinguishing media :

Water spray, foam, dry chemical, carbon dioxide, sand.

Fire Hazard Properties:

In a fire, hydrogen cyanide, carbon monoxide, phosphorus pentoxide, sulphur dioxide and nitrogen oxides may be formed.

Protection of fire-fighters:

Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases. Do Not allow extinguishing media to discharge into soil, sewage system and surface waters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Do not inhale spray. Wear Full Personal Protective Equipment (**PPE**). Chemical resistant coveralls, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant headgear and chemical resistant eyewear. Respiratory protection equipment (**RPE**) appropriate to protect against respiratory exposure to this substance in mist or vapour forms. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing after work.

Environmental precautions:

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up:

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities.

7. HANDLING AND STORAGE**Handling:**

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

Storage:

Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Packaging materials:

HDPE Plastic drum

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Workplace Exposure Guidelines****Workplace exposure standards:**

Solvent naphtha (petroleum, heavy aromatic):TWA: 100mg/ m³ (17ppm)
For the naphthalene present in the solvent
TWA: 10ppm (52mg/ m³, STEL: 15ppm (79mg m³). Skin notation.

Engineering measures**Exposure control measures:**

Ensure ventilation is adequate, generally natural ventilation is adequate.
Local exhaust ventilation should be provided if material is handled in confined areas.

Personal Protective Equipment (PPE)**Detail specifications for equipment:****Respiratory system:**

Respiratory protection equipment (**RPE**) appropriate to protect against respiratory exposure to this substance in mist or vapour forms.

Skin and body:

Chemical resistant coveralls, chemical resistant footwear plus socks, chemical resistant headgear.

Hands:

Chemical resistant gloves

Eyes:

Chemical resistant eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State:**

Liquid

Colour:

Amber

Odour:

Aromatic

pH:

5 -6

Vapour Pressure:	1.2 x 10 ⁻⁶ hPa at 20 °C (fenamiphos): 0.3 kPa (at 38°C) - hydrocarbon solvent.
Vapour density:	> 1.00 –solvent
Boiling Point:	Unknown
Solubility:	Mixes with water
Specific gravity:	Approx. 1.01 – 1.04gm (20°C)
Flashpoint:	> 65° C
Auto ignition temperature:	> 400°C (solvent)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Temperatures >30°C and Sources of ignition.
Materials to avoid:	Oxidising agents, strong acids.
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 : LD₅₀	10mg/kg (rat)
Acute toxicity - Dermal : LD₅₀	160mg/kg (rat)
Acute toxicity – Inhalation: LC₅₀	130mg/km ³ 4hrs (rat)
Skin irritation :	Slight skin irritant (rabbit)
Eye irritation:	Slight eye irritant (rabbit)
Sensitization :	Not a skin sensitizer

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC ₅₀ (96 hr): 0.0093mg/l bluegill sunfish. LC ₅₀ (96 hr): 0.0721mg/l trout.
Daphnia toxicity:	EC ₅₀ (48hr): 1.0019mg/l daphnia magna.
Algae toxicity:	LC ₅₀ (72hr): 10mg/l green algae.
Bird toxicity:	LD ₅₀ oral <1.6mg/kg quail and mallard
Bee toxicity:	Toxic to bees

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
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CONTAINER DISPOSAL: Triple rinse drum and add rinsate to mixing tank. Contact Agrecovery rural recycling programme for free drum collection on 0800 AGRECOVERY (0800 247 766). Do not use drum for any other purpose.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	3018
UN Hazard Class:	6.1
Packing Group:	II
Hazchem Code:	2X
Marine Pollutant:	Yes
Proper shipping name :	ORGANOPHOSPHOROUS PESTICIDE, LIQUID, TOXIC (fenamiphos)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	P7537 (See www.foodsafety.govt.nz/acvm for registration conditions).
HSNO Approval Code:	HSR000956 (See www.epa.govt.nz for controls).
Approved Handler:	This product must only be applied by an Approved Handler or under the supervision of an Approved Handler.
Tracking:	Location and movement of this product must be recorded at each stage of its lifecycle.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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