

103 - 105 PIPE ROAD, LAVERTON NORTH, VIC. AUSTRALIA 3026 Postal Address: PO Box 103, LAVERTON, VIC. AUSTRALIA 3028 Telephone: 03 9282 1000 Fax: 03 9282 1001

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PRODUCT: FENITROTHION 1000 Insecticide Infosafe No: NU012

ISSUED: Dec 01

Hazardous according to criteria of Worksafe Australia

UN NO...:3017

D.G.CLASS:6.1

CAS NO...:

HAZCHEM..:2 X

SUB. RISK:3

SUSDP....: S6 (FED) S6 (NSW) S6 (VIC) S6 (SA) S6 (WA) S6 (Qld) S6 (Tas) S6 (NT)

G.T.EPG..:6C1

SPEC.EPG.:

PACK. GRP:III

PRODUCT IDENTIFICATION

CORRECT SHIPPING NAME:

ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S.

OTHER NAMES:

TRADENAMES .:

MANUF .: MANCODE:

Fenitrothion 1000 Insecticide

1200 NUFARM

INGREDIENTS:

CHEMICAL ENTITY:

CAS NO:

PROPORTION:

Fenitrothion

122-14-5

1000g/L

Xylene

1330-20-7

50-100qL

Mixed proprietary surfactants

Mixture

100-200g/L

(ethylene oxide condensates and anionics)

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE:

Clear, amber liquid with characteristic odour.

BOILING POINT....: 138°C for solvent a.i. decomp >140°C

MELTING POINT....: <0°C

VAPOUR PRESSURE....: 18mPa @ 20° for fenitrothion

VOLATILE COMPONENT .: approx 10% SPECIFIC GRAVITY...: 1.24 @ 20°C FLASH POINT..... 34°C (c.c.)

FLAMMABILITY LIMITS: Lower 1.2; Upper 7.1

AUTOIGNITION TEMP..: about 480C but a.i. will decomp. at 100-140°C

REL. VAPOUR DENSITY: 3.2 pH...... Neutral FORM..... Liquid

OTHER PROPERTIES:

The product is not water soluble, but will mix with water to form a fine emulsion.



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USE:

For the control of various insects pests crops and pastures as per the Directions of Use Table.

HEALTE HAZARD INFORMATION

ACUTE EFFECTS

SWALLOWED:

Harmful if swallowed (R22).

This is not a common route of exposure. Accidental or deliberate swallowing of the concentrate is a significant hazard.

EYE:

Will cause irritation, and absorption into the body system may also be significant.

SKIN:

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.

INHALED:

Only considered a hazard during spraying operations.

CHRONIC EFFECTS

CHOLINESTERASE INHIBITOR

Chronic Over Exposure: Some delayed neurotoxic effects have been noted but no other chronic effects observed.

OTHER HEALTH HAZARD INFORMATION

Acute Over Exposure: The onset of symptoms tend to be rapid. Early signs and symptoms in acute poisoning are reported to be exhaustion, headache, weakness, confusion, vomiting, abdominal pain, excessive sweating and salivation. 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.

FIRST AID

SWALLOWED:

If swallowed give one atropine tablet every five minutes until dryness of the mouth occurs. See advice to Doctor.

EYE:

Irrigate thoroughly with copious quantities of water for 15 minutes.



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SKIN:

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

INHALED:

Remove patient to fresh air and if required give one atropine tablet every five minutes until dryness of the mouth occurs.

FIRST AID FACILITIES:

ADVICE TO DOCTOR:

The product is a cholinesterase inhibitor. Atropine treatment may be required - curare therapy is contraindicated. Treat hydrocarbon pneumonitis secondary to pulmonary oedema. Atropine should be given, beginning with 2mg iv at 15 minute intervals, maintaining the patient fully atropinised (dilated pupils, dry mouth, skin flushing etc). Cholinesterase reactivators (eg pralidoxime, obidoxime) treatment may be given and should start as soon as possible, because oximes are not effective on "aged" phosphorylated ChEs. A dose of 1 g Pralidoxime can be given either im or iv and repeated 2-3 times per day, or in extreme cases, more often. Diazepam should be included in the therapy of all but the mildest cases. Doses of 10 mg sc or iv are appropriate and may be repeated as required. Other centrally acting drugs and drugs that may depress respiration are not recommeded in the absence of artificial respiration procedures (Source: IPCS Environmental Health Criteria 133, Fenitrothion.)

TOXICITY DATA:

Fenitrothion Technical:

Toxicity to Mammals:
Acute oral LD50 for rats 570-740mg/kg
mice 870mg/kg
guinea pigs 500mg/kg
Acute dermal LD50 for rats 1300mg/kg
mice >3000mg/kg

Toxicity to Fish: LC50 for Cyprinus carpio 2.0mg/l (48 hours)

Toxicity to Bees: Toxic to bees

The Australian Acceptable Intake (ADI) of fenitrothion for a human is 0.002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.2 mg/kg/day, the level determined to show no effects



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TOXICITY DATA: - (continued)

during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Aged Care, "ADI List", August 2001).

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

No exposure standards have been set for this product. A limit has been set for the solvent, xylene at 80 ppm (350 mg/m3) TWA (time weighted average), and 150 ppm (655 mg/m3) STEL (short term exposure limit).

ENGINEERING CONTROLS:

Natural only, except in confined spaces when forced ventilation should be used, especially when handling the concentrate. 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.

PERSONAL PROTECTION:

Product is poisonous if absorbed by skin contact or inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect especially on cholinesterase activity. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and face shield. When using in enclosed areas wear goggles and half-face respirator with combined dust and gas cartridge. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Obtain an emergency supply of atropine tablets, 0.6mg.

FLAMMABILITY:

Flammable.

Flash point is 34 C.

ENVIRONMENT:

Marine Pollutant.

Do not contaminate dams, rivers or streams with the chemical or used containers. Do not use container for any other purpose. Triple rinse empty container and add the rinsate to the spray tank. Dispose of the container in a responsible manner approved of by local authorities. Toxic to bees.

DO NOT spray any plants in flower while bees are foraging. Toxic to fish.



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SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

STORAGE:

Store in original container tightly sealed in a safe place. Stow away from foodstuffs.

TRANSPORT

The product is a dangerous good for storage and transport, classified as: Organophosphorus, pesticides, liquid, toxic, flammable,

flashpoint not less than 23°C.

UN No. 3017

Class: 6.1

Packaging Group: III

Subrisk: 3

Hazchem: 2X

EPG: 6C1

Packaging and Labelling:

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING

The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:

Risk Phrases:

R10 - Flammable

R22 - Harmful if swallowed

SPILLS AND DISPOSAL:

Contain spill and absorb with sand or proprietary absorbent (vermiculite).

Prevent from entering drains, waterways or sewers.

Collect in sealed open top containers for disposal.

Keep people away from area.

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

Waste disposal by dumping at a site approved by local authorites or by industrial incineration.

FIRE/EXPLOSION HAZARD:

Emission of toxic fumes or vapours would be expected if material involved in fires. Breathable air apparatus should be worn in confined spaces. Extinguishing media: Foam, carbon dioxide, dry chemical.

Reactivity Data:

Avoid alkalis such as caustic soda and strong oxidising agents. Will break down in the presence of alkalis or strong acids. Will not polymerise.



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OTHER INFORMATION

User Data:

Contact Point:

Normal Hours: Mr. Volker Maier Phone: (03) 9282-1000 After Hours: Shift Supervisor Phone: 1 800 033 498

End: Infosafe printed Material Safety Data Sheet - 10 December 2001