

DOMINEX 100[®]

Date of Issue: 9 September 2005

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): alpha-cypermethrin
Recommended use: Insecticide
Supplier: Elliott Technologies Limited
45 Kitchener Road
Pukekohe
Phone 0800 100 325
Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: HSNO: 3.1D, 6.1D, 6.3B, 6.9B, 9.1A, 9.3B, 9.4A
Required identification Details: WARNING, TOXIC.
COMBUSTIBLE LIQUID – KEEP AWAY FROM SOURCES OF IGNITION
ECOTOXIC, TOXIC TO AQUATIC LIFE. TOXIC TO FISH.
TOXIC TO TERRESTRIAL VERTEBRATES. VERY TOXIC TO TERRESTRIAL INVERTEBRATES. TOXIC TO BEES

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Alpha-cypermethrin	67375-30-8	10%
Aromatic hydrocarbon	64742-94-5	76%
Surfactant mixture		14%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

Harmful by inhalation.
Harmful if swallowed.

First-aid measures

May cause sensitisation by inhalation and skin contact.

Inhalation:

Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.

Ingestion:

If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Centre. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Do not give anything by mouth to a semi-conscious or

Skin contact:	unconscious person. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT SCRUB THE SKIN. Facial skin contact may cause temporary facial numbness.
Eye contact:	If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Take to hospital without delay.
Notes to a physician:	Alpha-cypermethrin, the active ingredient in this product is a pyrethroid insecticide. The formulation also contains liquid hydrocarbons that can cause severe pneumonitis or fatal pulmonary edema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise symptomatic and supportive. In cases of skin contact, it has been reported that topical applications of Vitamin E acetate was found to have very high therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	3Z
Extinguishing media :	Soft stream water fog,foam,carbon dioxide,dry chemical
Hazardous thermal (de)composition products:	Carbon monoxide, carbon dioxide, hydrogen cyanide, chlorine, and hydrogen chloride.
Protection of fire-fighters:	Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants ,waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.
Environmental precautions:	Dangerous to Fish: 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 and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. This product is classified under HSNO as 6.1D and 9.1A, and storage of certain quantities may require bunding and signage. See the HAZNOTE for further information.
Packaging materials:	Fluorinated HDPE Plastic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	No biological exposure limit allocated.
Exposure Standards outside: The workplace:	No exposure standards have been set for this product or the active ingredients. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon.

Engineering measures

Exposure control measures:	Handle in well ventilated areas, generally natural ventilation is adequate.
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Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	Do not inhale spray mist.
Skin and body:	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 and PVC gloves and goggles.
Hands:	Elbow-length and PVC gloves
Eyes:	Wear chemical goggles.
General hygiene:	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear straw coloured liquid.
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Colour:	Clear straw coloured liquid.
Odour:	Aromatic Odour.
pH:	5 – 6.5
Vapour Pressure:	N/A
Boiling Point:	135°C
Freezing/melting point:	N/A
Solubility:	Not soluble in water
Specific gravity or density:	0.92 @20°C
Information for flammable material including:	Combustible liquid C1 62°C closed cup
Octanol/water partition coefficient:	Log Pow of 5.0
Explosion properties:	Not explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Do not store below 4°C.
Conditions to avoid:	Extremes of temperatures
Materials to avoid:	Oxidising agents
Hazardous decomposition Products:	Refer to fire section
Hazardous polymerization:	Does not occur
Specific Data:	
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀	790mg/kg (Rat)
Acute toxicity - Dermal : LD₅₀	> 2,000mg/kg (Rabbit)
Acute toxicity – Inhalation: LC₅₀	> 0.32 mg/litre,4 hr (Rat)
Skin irritation :	May irritate the skin.
Eye irritation:	May cause sensitisation by repeated inhalation of spray. Breathing vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of coordination, impaired judgment and if exposure is prolonged, unconsciousness.
Sensitization :	Prolonged or repeated exposure may cause skin sensitisation. Exposure to alpha-cypermethrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort. The occurrence of 'facial sensations' is an indication of exposure. Under these circumstances work practices should be reviewed.
Chronic toxicity	No data available on this formulation. In studies with laboratory animals, Alphacypermethrin Technical did not cause teratogenicity or reproductive toxicity. The overall results from a battery of genotoxicity studies indicate that alpha-

cypermethrin is not considered to be genotoxic. Ames test results were negative. Kidney and liver damage is possible from over-exposure to aromatic hydrocarbons over long periods. Additionally, some reversible haematopoietic depression has been observed in animals with extended exposure to aromatic hydrocarbons.

Other information : Repeated exposure could result in peripheral nervous system damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to fish.
LC50 (96hr) for rainbow trout is 0.0028 mg/l.
LC50 (48 hr) for alpha cypermethrin is 0.0003 mg/l.

Bees Toxic to bees. LD50 0.059 µg/bee.

Soil Average field half life of alpha cypermethrin is 90 days.

Bioaccumulative potential : Has a very low potential for bioconcentration, and is not mobile in soil.

Birds Not toxic to birds. LD50 for mallard duck is >10,000 mg/kg

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.
CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION -International transport regulations

UN number: 3082
Class or Division: 9
Classification Code: **Dangerous Good.**
Packing Group: **IMDG Pack. Group III**
Marine Pollutant:
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (BIFENTHRIN)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number: **P4141**
HSNO Approval Code: **HSR0000293**

16. OTHER INFORMATION

Additional information:

Original Issue Date: 8th June 2007

Revision Date: 8.06.2007

Replaces: **SDS DOM ES171**

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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