

Trade Name

Date of Issue: 23 April 2007

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Permethrin

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 Class: 6.4A, 6.5B, 6.9B, 9.1A, 9.4B
APPROVED HANDLER APPLIES - This product must be under the personal control of an approved handler or secured.

Required identification Details:

VERY TOXIC TO AQUATIC ORGANISMS. Avoid contamination of any water supply with product or empty container. **TOXIC TO TERRESTRIAL INVERTEBRATES.**
TOXIC TO BEES.
HARMFUL - may cause eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Permethrin	52645-53-1	2.0%
Talc	14807-96-6	> 80%

4. FIRST-AID MEASURES

Effects and symptoms

First-aid measures

Dragnet has low oral, dermal and inhalation toxicity. The talc used in this product contains no asbestos fibre. Most health problems associated with occupational exposure to talcs appear to evolve mostly from the nonplatform content of the talc used (being the asbestos-like amphiboles, serpentines (asbestiformas) and other minerals in the form of acicular, prismatic and fibrous crystals including, possibly asbestos). Dust of nonfibrous talc, consisting entirely of platform talc crystals and containing no asbestos poses a relatively small

respiratory hazard. Exposure at or below the TWA (2.5 mg/m³) is thought to protect workers from the significant risk of nonmalignant respiratory effects associated with talc dusts.

Inhalation:	Low inhalation toxicity. Acute Inhalation LC ₅₀ (rat) > 5.27 mg/L/1 hour. It may irritate the mucous membranes of the respiratory tract. Remove to fresh air. If breathing discomfort occurs, contact a medical doctor.
Ingestion:	Dragnet Dust has low oral toxicity; the Acute Oral LD ₅₀ (rat) 12,000 mg/kg (calculated). If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Seek medical advice.
Skin contact:	Non irritating to the skin. Acute Dermal LD ₅₀ (rabbit) > 2000 mg/kg. If on skin or clothing, remove any contaminated clothing at once, and wash skin thoroughly with soap and water. See a doctor if irritation persists.
Eye contact:	Mildly irritating to the eyes. Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.
Notes to a physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES: Material may support combustion at elevated temperatures. Thermal decomposition and burning may produce toxic by-products. Special Fire Fighting Procedures - Isolate fire area. Evacuate downwind residents.

HAZCHEM Code:	N/A
Extinguishing media :	Foam, CO ₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.
Hazardous thermal (de)composition products:	Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, hydrogen chloride and sulfur dioxide.
Protection of fire-fighters:	Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	<u>Eye Protection:</u> Where potential dust exists, wear chemical protective goggles. Contact lenses pose a special hazard as soft lens may absorb irritants and all lens concentrate them. Emergency eye wash facilities would be located nearby. Avoid contact with the eyes. <u>Respiratory Protection:</u> For dust exposure, wear a half face air purifying respirator which is approved for dusts (Australian Standards). Respirator selection is based on an airborne concentration. <u>Gloves:</u> Wear chemical protective gloves when handling this
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product. Inspect regularly for leaks.

Personal Hygiene: Wash skin before eating, drinking or smoking. Shower at the end of the workday.

Environmental precautions:

In the case of spillage contain spilled material by dyking with material like sand or clay. Large spills should be covered to prevent dispersal.

Methods for cleaning up:

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:

Storage:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a separate room away from children and animals. Do not locate near or contaminate food, drink or animal feed by storage or disposal. No smoking eating or drinking should be allowed where material is used or stored.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

Not Established

Exposure Standards outside:

Not Established

The workplace:

Engineering measures

Exposure control measures:

Thoroughly ventilate all transport vehicles prior to unloading. General air replacement or dilution ventilation is sufficient for material handling and storage, but local exhaust ventilation should be used when filling or emptying this product.

Personal Protective Equipment

Detail specifications for equipment:

For normal handling, wear long sleeve uniform or overalls and head covering. For larger exposures, as in the case of spills, wear full body cover barrier suit, such as rubber rain suit.

Respiratory system:

For dust exposure, wear a half face air purifying respirator which is approved for dusts. Respirator selection is based on an airborne concentration.

Skin and body:

Wear Overalls

Hands:

Wear chemical protective gloves when handling this product. Inspect regularly for leaks.

Eyes:

Where potential dust exists, wear chemical protective goggles. **Contact lenses** pose a special hazard as soft lens may absorb irritants and all lens concentrate them. Emergency eye wash

General hygiene:

facilities would be located nearby. Avoid contact with the eyes
Wash skin before eating, drinking or smoking. Shower at the
end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State, odour & colour:	White powder with no detectable odour. be used as a dust.
Boiling Point:	Not applicable.
Freezing/melting point:	Not Applicable.
Solubility:	Does not mix readily with water. To be used as a dust.
Specific gravity or density:	Not Available
Flashpoint:	Not Applicable.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Conditions to avoid:	Moisture and excessive heat.
Materials to avoid:	None known
Hazardous decomposition Products:	In Fire : Carbon monoxide, carbon dioxide, hydrogen
Hazardous polymerization:	Not subject to polymerization.
Specific Data:	None
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	Acute Oral LD ₅₀ (rat) 12,000 mg/kg (calculated).
Acute toxicity - Dermal :	Acute Dermal LD ₅₀ (rabbit) > 2000 mg/kg.
Acute toxicity – Inhalation:	Low inhalation toxicity. Acute Inhalation LC ₅₀ (rat) > 5.27 mg/L/1 hour. It may irritate the mucous membranes of the respiratory tract.
Skin irritation :	Non irritating to the skin. Acute Dermal LD ₅₀ (rabbit) > 2000 mg/kg.
Eye irritation:	Mildly irritating to the eyes.
Sensitization :	Not a sensitizer.
Chronic toxicity	No data available on this formulation. In studies with laboratory animals, Permethrin Technical did not cause teratogenicity or reproductive toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available on Dragnet Dust Insecticidal Powder. The following information refers to Permethrin. <u>Environmental Toxicology:</u> Permethrin is considered highly toxic to fish and aquatic arthropods and has LC ₅₀ values which range from 0.02 µg/L to 315 µg/L. The aquatic arthropods tend to be some of the more sensitive species. Marine species are often more sensitive than freshwater species. Permethrin is
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slightly toxic to birds and the Acute Oral LD₅₀ values are greater than 3,600 mg/kg. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

Environmental Properties: Permethrin has a moderate rate of degradation in soil. It is stable over a wide range of pH values. Because permethrin has a high affinity for organic matter, there is little potential for movement in the soil or entry into ground water. Permethrin has a low Log P_{ow} of 6.1, but because of the ease with which biological systems degrade the molecule, the potential for bioconcentration and accumulation in the environment is low.

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

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

14. TRANSPORT INFORMATION - International transport regulations

UN number:	UN 3077
Class or Division:	Class 9 (Miscellaneous Dangerous Goods)
Sub Class:	N/A
Packing Group:	Packing Group III
Marine Pollutant:	Dust Insecticidal Powder is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA).
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 2% Permethrin).
Other Information:	

15. REGULATORY INFORMATION

ACVM Registered Number:	N/A
HSNO Approval Code:	HSR000272

16. OTHER INFORMATION

Additional information:	Original Issue Date: 23 rd April 2007
	Revision Date: N/A
	Replaces: N/A

Disclaimer

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Elliott Technologies Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

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