

MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of NOHSC Australia

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COMPANY DETAILS

Date of Issue: November 2004
MSDS No. FMC/DRAGDUST/2

Company: FMC Australasia Pty Ltd.
Address: Unit 6A, 9 Archimedes Place, Murarrie, Qld 4172
Telephone Number: 07 3908 9222 **Fax Number:** 07 3908 9221
Emergency Telephone Number: 1800 033 111 (All hours - Australia wide)

IDENTIFICATION

Product Name: DRAGNET[®] DUST INSECTICIDAL POWDER

Physical Description/Properties:

Other Names: Permethrin
Common Name: Permethrin
Product Code: Not relevant.
Shipping Name: Not Applicable (n/a)
Appearance: White powder with no detectable odour.
Boiling point: Not applicable.
Density: Not available.
Flashpoint (°C): Not Applicable.
Flammability Limits (%): Not available.
Solubility in Water: Does not mix readily with water. To be used as a powder.
Use: A ready-to-use insecticidal dusting powder for the control of public health insect pests.
Poisons Schedule: Not a scheduled poison.

Ingredients:

Chemical	CAS Number	Proportion
Permethrin	52645-53-1	20 g/kg
Talc	14807-96-6	> 80%
Other non-hazardous materials	mixture	< 1%

HEALTH HAZARD INFORMATION

Health Effects: 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.

Risk Phrase: R36 Irritating to eyes.

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HEALTH HAZARD INFORMATION (Continued)

Safety Phrases: S2 Keep out of reach of children.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.

Acute:

Swallowed: Dragnet Dust has low oral toxicity; the Acute Oral LD₅₀ (rat) 12,000 mg/kg (calculated).

Eye Contact: Mildly irritating to the eyes.

Skin Contact: Non irritating to the skin. Acute Dermal LD₅₀ (rabbit) > 2000 mg/kg.

Inhaled: Low inhalation toxicity. Acute Inhalation LC₅₀ (rat) > 5.27 mg/L/1 hour. It may irritate the mucous membranes of the respiratory tract.

Chronic: No data available on this formulation. In studies with laboratory animals, Permethrin Technical did not cause teratogenicity or reproductive toxicity.

FIRST AID

Swallowed: 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.

Eyes: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

Skin: 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.

Inhaled: Remove to fresh air. If breathing discomfort occurs, contact a medical doctor.

PRECAUTIONS FOR USE

Exposure Standards: No exposure limit has been assigned to permethrin by NOHSC Australia. However, a NOHSC Australia Standard for talc has been set: Time Weighted Average (TWA) = 2.5mg/m³.

Engineering Controls: 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 Protection:

Work Clothing: 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.

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PRECAUTIONS FOR USE (Continued)

Eye Protection: 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.

Respiratory Protection: 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.

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

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

Flammability: Slightly combustible.

SAFE HANDLING INFORMATION

Road & Rail Transport: Dragnet Dust Insecticidal Powder is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Dragnet Dust Insecticidal Powder is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-

UN 3077, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 2% Permethrin).

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. Wash all exposed skin surfaces prior to smoking drinking or eating. All workers should shower at the end of each work day after handling this product. Wash all clothing after each use.

Spills and Disposal: In the case of spillage contain spilled material by dyking with material like sand or clay. Large spills should be covered to prevent dispersal. Dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Wear prescribed protective clothing and equipment. 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 or State Waste Management Authorities.

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

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SAFE HANDLING INFORMATION (Continued)

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.

Fire/Explosion Hazard:

Degree of Hazard. Material may support combustion at elevated temperatures. Thermal decomposition and burning may produce toxic by-products.

Hazardous Decomposition Products - Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, hydrogen chloride and sulfur dioxide.

Extinguishing Media - Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

Special Fire Fighting Procedures - Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

OTHER INFORMATION

No data is available on Dragnet Dust Insecticidal Powder. The following information refers to Permethrin.

Environmental Toxicology: Permethrin is considered highly toxic to fish and aquatic arthropods and has LC₅₀ 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 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.

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