

# MATERIAL SAFETY DATA SHEET

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Date of Issue: July 2007  
MSDS No. FMC/DRAGDUST/3

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name: DRAGNET<sup>®</sup> DUST INSECTICIDAL  
POWDER - INDUSTRIAL STRENGTH**

**Other Names:** Permethrin.  
**Use:** Broad spectrum termiticide and insecticide  
**Company:** FMC Australasia Pty Ltd.  
**Address:** Unit 6, 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).

## SECTION 2 HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of NOHSC Australia.  
Not classified as a Dangerous Good according to the ADG Code.**

**Risk phrases:** R36 Irritating to eyes  
R43 May cause sensitisation by skin contact.

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

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

<i>CHEMICAL</i>	<i>CAS NUMBER</i>	<i>PROPORTION</i>
Permethrin	52645-53-1	20 g/kg
Talc	14807-96-6	> 80%
Quartz (Crystalline silica)	14808-60-7	< 2.5%
Other ingredients determined not to be hazardous	Mixture	Balance

## SECTION 4 FIRST AID MEASURES

### FIRST AID

**Swallowed:** If poisoning occurs, contact a doctor or Poisons Information Centre, phone Australia 13 11 26. Thoroughly rinse mouth with water. Dilute by giving 1 or 2 glasses of water. If any discomfort persists seek medical advice.

**Eye:** If in eyes, hold eyes open and flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

**Skin:** If on skin wash with plenty of soap and water. Remove contaminated clothing. If irritation occurs and persists see a doctor.

**Inhaled:** Remove patient to fresh air. If breathing discomfort occurs, obtain medical attention.

**Advice to Doctors:** Permethrin the active ingredient in this product is a pyrethroid insecticide. Treatment is otherwise symptomatic and supportive.

## SECTION 5 FIRE FIGHTING MEASURES

**Specific Hazard:** Product is not flammable.

**Extinguishing media:** Foam, CO<sub>2</sub> or dry chemical. Soft stream water fog if no alternatives. Contain all runoff.

**Hazards from combustion products:** On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride etc.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Emergency procedures:** Isolate and post spill area. Keep out unprotected persons and animals. Wear prescribed protective clothing and equipment.

**Spills:** In the case of spillage, contain spilled material and avoid spreading dust. Dispose of waste according to the Australian Standard 2507 - Storage and Handling of Pesticides. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

**Material and methods for containment and cleanup procedures:** To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

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

## SECTION 7 HANDLING AND STORAGE

**Precautions for Safe Handling:** Ensure containers are kept closed until using product. Avoid skin and eye contact and breathing dust.

**Conditions for Safe Storage:** Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a locked room or place away from children, animals, food, feed stuffs, seed and fertilizers.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:**

No exposure standard for Permethrin has been established by NOHSC Australia. However, the following exposure standards have been established:

Atmospheric Contaminant	Exposure Standard (TWA) <sup>1</sup>	STEL <sup>2</sup>
Talc (containing no asbestos fibres)	2.5 mg/m <sup>3</sup>	---
Quartz	0.1 mg/m <sup>3</sup>	---

<sup>1</sup> Time Weighted Average<sup>2</sup> Short Term Exposure Limit**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Use in well ventilated area only. Use local exhaust at all process locations where dust may be emitted. Keep containers closed when not in use.

**Personal Protective equipment (PPE):**

Work Clothing: Wear suitable protective clothing. Keep protective clothing separate from private clothing.

Eye Protection: When using product, avoid contact with eyes.

Respiratory Protection: If inhalation risk exists, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (Australian Standards).

Gloves: Wear rubber gloves when handling this product. Wash the outside of gloves with soap and water prior to removal.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	White powder
<b>Odour:</b>	No detectable odour
<b>Boiling point:</b>	Not applicable
<b>Freezing point:</b>	Not applicable
<b>Specific Gravity:</b>	Not available
<b>pH:</b>	Not applicable
<b>Solubility in Water:</b>	Insoluble, does not mix readily with water
<b>Flammability:</b>	Not flammable
<b>Corrosive hazard:</b>	Non corrosive
<b>Flashpoint (°C):</b>	Not applicable, not flammable
<b>Flammability Limits (%):</b>	Not flammable
<b>Poisons Schedule:</b>	Not scheduled

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**Chemical Stability:** Product is considered stable in ambient conditions.

**Conditions to avoid:** No particular conditions to avoid.

**Incompatible materials:** Strong oxidising agents.

**Hazardous decomposition products:** When the product is heated to high temperatures, thermal decomposition may generate Carbon dioxide, Carbon monoxide, Hydrogen chloride and Sulphur dioxide. Toxic mixtures may be generated in confined spaces when heated.

**Hazardous reactions:** No particular reactions to avoid. Will not polymerise.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**Potential Health Effects:**

Permethrin has low oral and inhalation toxicity. Permethrin has been reviewed in the Australian Pesticides and Veterinary Medicine Authority (APVMA) program for agricultural and veterinary chemicals and classified as an irritant when present at concentrations such as those found in this product, and may cause sensitisation by skin contact.

The talc used in this formulation contains no asbestos fibre but may be irritating to the eyes and respiratory system.

**Acute**

**Swallowed:** This product has low oral toxicity.

**Eye:** This product is a mild irritant if dust enters the eye.

**Skin:** This product may cause sensitisation by skin contact.

**Inhaled:** This product may cause respiratory irritation if inhaled.

**Chronic:** No data available on this formulation. Permethrin is not known to be carcinogenic, teratogenic or mutagenic.

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Environmental Toxicology:** The active ingredient, Permethrin, is highly toxic to fish and aquatic arthropods. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

**Permethrin:**

Species	LC50
Rainbow trout	5.4 µg/L (48 hr)
Bluegill sunfish	1.8 µg/L (48 hr)
<i>Daphnia magna</i>	0.6 µg/L (48 hr)

**Environmental Properties:** The active ingredient 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<sub>ow</sub> 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.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal:** Label all recovered material for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

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

**Disposal of empty, non-returnable containers:** Triple or preferably pressure rinse containers before disposal. Do not dispose of unused chemicals on-site. If recycling, replace lid and return containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

## SECTION 14 TRANSPORT INFORMATION

**Road & Rail Transport:** Dragnet Dust Insecticidal Powder is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail (6<sup>th</sup> Ed).

**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).

## SECTION 15 REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Code Act 1994, Product No. 52336.

Not a scheduled poison under the criteria of Standard for Uniform Scheduling of Drugs and Poisons (SUSDP No. 21)

Classified as a hazardous substance (Xi) according to criteria of NOHSC Australia.

Not classified as a Dangerous Good according to the ADG Code (6<sup>th</sup> Ed).

Classified as a Dangerous Good according to the International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

## SECTION 16 OTHER INFORMATION

**Issue Date:** 9 July 2007 (Third issue)

**Reason for Update:** Update MSDS to sixteen section format in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)], April 2003.

### Key to abbreviations and acronyms used in this MSDS:

**ADG Code** Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

**Carcinogenic** Capable of causing cancer

**Genotoxic** Capable of causing damage to genetic material, such as DNA.

**Mutagenic** Capable of inducing a genetic mutation in an organism

**NOHSC** National Occupational Health and Safety Commission.

**PPE** Personal protective equipment.

**STEL** Short Term Exposure Limits means a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

**Teratogenic** Capable of causing abnormalities in a developing foetus.

**TWA** The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

### References

1. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment, NOHSC:1003(1995).
2. Approved Criteria for Classifying Hazardous Substances, 3rd Ed., NOHSC Australia, NOHSC:1008 (2004), October 2004.
3. DRAGNET DUST® Insecticidal Powder, Material Safety Data Sheet, FMC Australasia Pty Ltd, MSDS No. FMC/DRAGDUST/2, Date of Issue: November 2004.
4. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].
5. "Search Hazardous Substances", Dept. of Employment and Workplace Relations, Office of the Australian Safety and Compensation Council, Website, (2007).
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) No.22 (effective date 1 June 2007).
7. The Australian Dangerous Goods Code (6th Edition).

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

**END OF MSDS**