

# SAFETY DATA SHEET

## DRAGNET DUST INSECTICIDAL POWDER- INDUSTRIAL STRENGTH

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Material Identification</b>	<b>DRAGNET DUST INSECTICIDAL POWDER-INDUSTRIAL STRENGTH</b>
<b>Product description</b>	Permethrin insecticide.
<b>Use</b>	A broad spectrum insecticide.
<b>Company details</b>	FMC Australasia Pty Ltd Unit 26, 8 Metroplex Avenue, Murarrie, Qld 4172
<b>Telephone</b>	Aust. (07) 3908 9222
<b>Fax</b>	Aust. (07) 3908 9221
<b>New Zealand Distributor</b>	Garrards (NZ) Ltd Unit 4/27B Cain Road Penrose, New Zealand
<b>Telephone</b>	(09) 526 5232
<b>24-hour Emergency phone</b>	National Poisons Centre 0800 POISON (0800 764766)
<b>Date of Issue</b>	March 2010

### 2. HAZARDS IDENTIFICATION

<b>HSNO Classification</b>	6.4A,(Eye irritant), 6.5B (Skin sensitiser), 6.9B(Target organ systemic toxin), 9.1A( Aquatic toxicant), 9.4B(Terrestrial invertebrate toxicant)
<b>Hazards</b>	Harmful-may cause eye irritation. May cause skin sensitisation from prolonged skin contact. May cause organ damage from repeated oral exposure at high doses. Ecotoxic-very toxic to aquatic organisms. Toxic to terrestrial invertebrates.

### 3.COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient</b>	<b>CAS No.</b>	<b>Proportion</b>
Permethrin	52645-53-1	20g/kg
Talc	14807-96-6	>80%
Quartz (Crystalline silica)	14808-60-7	>2.5%
Other ingredients		Balance

### 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove to fresh air. If breathing discomfort occurs, contact a doctor immediately.
<b>Skin contact</b>	If spilt on the skin, remove contaminated clothing and wash affected areas of skin immediately. DO NOT Scrub the skin. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	If concentrate is splashed in eyes, flush with running water for at least 15 minutes. If irritation occurs and persists take to hospital without delay. For advice contact the National Poisons Centre 0800 POISON (0800 764766)

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**Ingestion** If swallowed, DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or call a doctor immediately.

## 5. FIRE FIGHTING MEASURES

**Flashpoint** Non flammable.

**Extinguishing Media** Soft stream water, fog, foam, CO<sub>2</sub> or dry chemical.

**Fire Fighting Instructions** Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Shut off source of fuel, if possible and without risk. Use water spray. Cool tank/container with water spray. Fight fire from maximum distance, use extreme caution as heat may decompose material and rupture containers.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

**Combustion products** Hazardous gases produced in a fire under conditions that produce incomplete combustion may consist of carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

**Hazchem Code** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**Spill precautions** Use appropriate Personal Protective Equipment during clean up. (See section 8). Evacuate personnel, thoroughly ventilate area, and use self contained breathing apparatus. Remove source of heat, sparks, flame, impact friction or electricity. Keep upwind of leak - evacuate until gas has dispersed.

**Spill containment** Contain spill. Prevent product from entering sewers, waterways on low areas.

**Spill clean up** Soak up with sawdust, sand or other absorbent material. Shovel or sweep up. Never return to container for reuse. DO NOT flush to surface water or sanitary sewer system. 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 with bleach or caustic soda ash solution. Absorb as above and add to the drums of waste already collected. See section 13 for disposal directions.

## 7. HANDLING AND STORAGE

**Handling** Do not breathe product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

**Storage** Store product in original container, tightly closed, away from other pesticides, fertiliser, food or feed and under lock and key. Store in a cool, well ventilated location. Avoid excess heat. Not for use or storage in or around the home. Do not store with Classes 1, 2, 3.2, 4, 5 substances. Stores containing more than 100kg of this product, either alone or in aggregate with other hazardous substances are subject to

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requirement of an emergency management plan, secondary containment and signage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits** No NOHSC Australia exposure standard has been established for permethrin. The following standard may apply to the product:

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

**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** Avoid skin and eye contact. Do not breathe dust. Wear long sleeve shirt; long-legged pants; shoes and socks  
IMPORTANT! Always wash hands, face and arms with soap and water before smoking, eating drinking.  
AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job - do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Solid  
**Colour** White powder  
**Boiling Point** Not available  
**Flash Point** Not applicable  
**Corrosivity** Non corrosive. Compatible with stainless steel, polyethylene.  
**Oxidisation** Not an oxidiser.  
(Also, see sections 5&10)

## 10. STABILITY AND REACTIVITY

**Stability** Stable at normal temperatures and storage conditions.  
**Incompatible materials** No incompatibilities reasonably foreseeable.

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects**

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<b>Eye</b>	Excessive exposure to dust may cause irritation to the eyes. This product contains a granular material that may cause mechanical irritation to the eyes.
<b>Skin</b>	May cause sensitisation from skin contact.
<b>Inhalation</b>	May cause respiratory irritation if inhaled.
<b>Ingestion</b>	Low oral toxicity.
<b>Chronic Effects</b>	No data available on this formulation. Permethrin technical is not known to be carcinogenic, teratogenic or mutagenic. <i>Crystalline silica</i> - also known as silicon dioxide (SiO <sub>2</sub> ) - is the basic component of sand, quartz and granite rock and is found in varying proportions in aggregates, sand, mortar, concrete and stone, and is also in the air and the soil. Processes which may give rise to airborne concentrations of crystalline silica dust include hard rock mining, excavation, tunnelling and earthworks, construction, foundry operations, ceramics production, stone works, refractory brick production, abrasive blasting, agricultural ploughing and harvesting, and the production of asphalt, agricultural chemicals, abrasives, glass and paint. If the dust given off from working with these materials is fine enough to be breathed into the lungs, it is termed "respirable". Certain exposures to crystalline silica can cause serious harm to human health. Prolonged exposure to respirable crystalline silica can cause silicosis.  NOHSC have classified crystalline silica as a hazardous substance, but have not given a classification and have not allocated Risk phrases for this substance

## 12. ECOLOGICAL INFORMATION

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	LD50	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)
Chicken	> 3000 mg/kg	---
Mallard ducks	> 9800 mg/kg	---
Bees	Oral: 0.098 µg/bee (24 hr) Topical: 0.029 µg/bee (24 hr)	---

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.

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## 13. DISPOSAL CONSIDERATION

Ensure container is empty. Containers should not be burnt. Puncture, shred or bury empty containers in a disposal pit specifically marked and set up for this purpose. Do not re-use empty containers.

Dispose of this product only by using in accordance with label directions. Dispose of solid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.

## 14. TRANSPORT INFORMATION

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Contains 2% permethrin)
<b>D.G. Class</b>	9
<b>UN Number</b>	3077
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Trade names</b>	DRAGNET DUST INSECTICIDAL POWDER-INDUSTRIAL STRENGTH

Transport according to the requirements of the Land Transport Rule 45001: Dangerous Goods 1999, the Maritime Rule 24A Carriage of Cargoes – Dangerous Goods and Civil Aviation Rule 92 meets the requirements of the HSNO Act.

## 15. REGULATORY INFORMATION

<b>HSNO Approval Code</b>	HSR000272
<b>Approved handler</b>	This product must be under the control of an approved handler at all times.

## 16. OTHER INFORMATION

<b>Glossary</b>	
ACGIH	American Conference of Governmental Industrial Hygienists.
DT <sub>50</sub>	Time(days) for 50%loss.
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substances and New Organisms.
IARC	International Agency for Research on Cancer.
K <sub>oc</sub>	Organic carbon partition coefficient (ml soil water/g organic carbon)
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

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LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
NOEL	No observable effect level.
OSHA	American Occupational Safety and Health Administration.
P <sub>ow</sub>	The octanol-water partition coefficient is the ratio of the concentration of a chemical in octanol and in water at equilibrium at a specified temperature.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

**Miscellaneous**

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process