

**Pest Controllers Own Permethrin D Professional Insecticide Dust****Section 1 - Identification of Chemical Product and Company**

Amgrow Pty Ltd
PO Box 6390
Silverwater NSW 1811

Phone: (02) 9395 1200 (Business hours)
Fax: (02) 9395 1241

Product Name: Pest Controllers Own Permethrin D Professional Insecticide Dust
Product Use: Indoor and outdoor insecticide for the control of ants, wasps and termites
Issue Date: March 2014

Section 2 - Hazards Identification**Statement of Hazardous Nature**

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA AUSTRALIA. (XI IRRITANT)
NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO THE ADG CODE.

Risk Phrases: R43 May cause sensitisation by skin contact

Safety Phrases: S24/25 Avoid contact with skin & eyes

SUSMP Classification: Not scheduled

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: White powdered solid.

Odour: No detectable odour

Major Health Hazards: No significant risk factors have been found for this product. The talc used in this product contains no asbestos fibre. Dust of non fibrous talc, consisting entirely of platifrom talc crystals and containing no asbestos poses a relatively small respiratory hazard.

Potential Health Effects

Inhalation: No inhalation hazards incidental to normal handling operations are anticipated from this product when used at room temperatures.

Skin Contact: This product is irritating to skin and may cause sensitisation.

Eye Contact: This product is irritating to the eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased, and in severe exposure, long lasting or even permanent effects such as corneal damage can occur.

Ingestion: Single dose oral toxicity is considered to be low. No hazards are anticipated from swallowing small amounts incidental to normal handling operations.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

<u>Ingredients</u>	<u>CAS No</u>	<u>Conc, %</u>
Permethrin	52645-53-1	1
Talc	14807-96-6	to100

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.



Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call. Eyebaths or eyewash stations and safety deluge showers should be provided where this product is being used.

Inhalation: No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: If product gets on skin, immediately remove contaminated clothing and wash skin with soap and water. If irritation persists, seek medical attention.

Eye Contact: Flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and give a glass of water to drink. First aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Decomposition Products: Only minor quantities of decomposition products are expected at temperatures normally achieved in a fire. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Auto ignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. If there is a significant chance that vapours or dusts are likely to build up in the cleanup area, we recommend that you use a respirator. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

MATERIAL SAFETY DATA SHEET



Section 8 - Exposure Controls and Personal Protection

Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)	ADI (mg/Kg/day)	NOEL (mg/Kg/day)
Permethrin	not set	not set	0.05	5
Talc	2.5	not set	not set	not set

Exposure limits have not been set by SWA for any other ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL No-observable-effect-level. Values taken from Australian ADI List, 31st March 2012

Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective eyewear should be worn when using this product. Eye contact may prove painful and dangerous and should be avoided.

Skin Protection: Impermeable protective gloves should be worn when you are using this product. Failure to do so may lead to irritation of the skin. Clothing: This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Clean overalls or protective clothing should be worn, preferably with an apron.

Protective Material Types: There is no specific recommendation for any particular protective material type. Consult AS2919 for advice on Industrial Clothing.

Respirator: It is usually safe to not use a dust mask or respirator protection on account of this product. However, if in dusty or confined conditions, use of a mask or respirator may be preferred.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White powdered solid
Odour:	No odour.
Melting Point:	No data
Flash Point:	n/a does not burn
Volatiles:	n/a
Bulk Density:	no data
Water Solubility:	Insoluble
pH:	no data
Volatility:	n/a
Odour Threshold:	No data.
Evaporation Rate:	No data.
Auto ignition temp:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles

Incompatibilities: Iron, alloys, strong acids and halogens

Decomposition Products: Only minor quantities of decomposition products are expected at temperatures normally achieved in a fire. Carbon dioxide & if combustion is incomplete, carbon monoxide and smoke.

Polymerisation: This product is unlikely to undergo polymerisation processes.



Section 11 - Toxicological Information

Oral toxicity: LD50 rat: 1479 mg/kg (Permethrin 25:75 in corn oil)
Dermal toxicity: LD50 rabbit: > 2000 mg/kg (Permethrin)
Inhalation toxicity: LC50 (3 hr) for mice and rats >685 mg/m³ air (Permethrin)
Skin irritation: Mild irritant – rabbit (Permethrin) Eye irritation: Mild irritant – rabbit (Permethrin)
Chronic: Permethrin is not mutagenic, teratogenic or carcinogenic.

Section 12 - Ecological Information

DO NOT contaminate streams, rivers, or waterways with the chemical or used containers.

Fish toxicity: LC₅₀ (96h): 2.5 µg/L rainbow trout (permethrin)
LC₅₀ (48h): 1.8 µg/L bluegill sunfish (permethrin)

Daphnia toxicity: LC₅₀ (48h): 0.6 µg/L (permethrin)

Toxicity to algae: Data not available

Bird toxicity: LD₅₀ : >3000 mg/kg chickens (permethrin)

LD₅₀ : >9800 mg/kg mallard ducks (permethrin)

LD₅₀ : >13500 mg/kg Japanese quail (permethrin)

Bee toxicity: LD₅₀ (24h) (oral): 0.098 µg/bee; (contact): 0.029 µg/bee

Environmental Fate, Persistence & Degradation: Permethrin degrades rapidly in soil and water

Section 13 - Disposal Considerations

Disposal: Normally suitable for disposal at approved land waste site. Instructions for the disposal of containers is found on the product label.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances

ASCC Australian Safety & Compensation Council

CAS number Chemical Abstracts Service Registry Number

IARC International Agency for Research on Cancer

IATA International Air Transport Authority

IMDG International Maritime Dangerous Good

NOHSC National Occupational Health and Safety Commission

NTP National Toxicology Program (USA)

MATERIAL SAFETY DATA SHEET



SUSMP
SWA
UN Number

Standard for the Uniform Scheduling of Medicines & Poisons
Safe Work Australia (formerly ASCC and NOHSC)
United Nations Number

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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

Copyright © Amgrow Pty Ltd March 2014