

MATERIAL SAFETY DATA SHEET

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PREPARED BY: LL

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME: Barmac Permethrin D Professional Insecticide Dust	INSECTICIDAL GROUP: Group 3A Insecticide: Pyrethroid.	APVMA REGISTRATION NUMBER: 49084
USE: Insecticide	AUSTRALIAN DISTRIBUTOR: Barmac, a division of Amgrow Pty Ltd. 17 Machinery Street, Darra, QLD 4076 Phone: (07) 3727 3000 Fax: (07) 3727 3030	EMERGENCY PHONE NUMBERS: Fire Brigade, Ambulance and Police Services: 000 Poisonings: 131 126 POISON INFORMATION CENTRE
FORM: Dust		

2. HAZARD IDENTIFICATION

Classified as hazardous according to the criteria of SWA. Not dangerous according to the ADG Code. HAZARD CATEGORY: Xi (Irritant) POISON SCHEDULE: Not applicable according to the SUSMP ADG Classification: Exempt. Package Group: Not Applicable	RISK PHRASES: R43, R3/38, R37	SAFETY PHRASES: S2-13, S22/24/25, S37
	HAZCHEM CODE: 2Z	UN NUMBER: Not Allocated.

3. COMPOSITION INFORMATION ON INGREDIENTS

MIXTURE: CHEMICAL IDENTITY: Permethrin 25:27 Talc Non-hazardous ingredients	PROPORTION: 1% >60% <10%	CAS No: 52645-53-1 14807-96-6 Not Applicable
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4. FIRST AID MEASURES

SWALLOWED: Rinse mouth. DO NOT induce vomiting. Keep patient warm and at rest. Seek medical attention.	INHALED: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
EYES: In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.	SKIN: Remove contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethylene glycol 400, subsequently rinse with water. In case of skin irritation, applications of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician

FIRST AID FACILITIES: Provide eye wash and shower facilities in workplace.

5. HEALTH EFFECTS

INGESTION: Low oral toxicity.

EYES: May irritate eyes.

SKIN: May irritate skin.

INHALED: Inhalation of dust may cause respiratory irritation.

CHRONIC: The following symptoms may occur: Prolonged and repeated contact with skin, eyes or mucous membranes may cause irritation. Burning sensation, cough, sneezing, respiratory disorder, pulmonary oedema, nausea, vomiting, diarrhoea, abdominal pain, salivation, dizziness, blurred vision, headache, anorexia, somnolence, coma, seizures, convulsions, tremors, ataxia, and muscular fasciculation.

6. FIRE-FIGHTING MEASURES

UNUSUAL FIRE & EXPLOSION HAZARDS:
In the event of fire decomposition products such as hydrogen chloride, carbon monoxide and carbon dioxide can be released.

SPECIAL FIRE FIGHTING PROCEDURES:
Must wear suitable breathing apparatus and protective suit when fighting fire. Approach upwind.

FLAMMABILITY: Flammable

HAZCHEM CODE: 2Z

EXPOSURE LIMITS:
ASCC has set the an exposure standard for talc as TWA 2.5 mg/m³

EXTINGUISHING MEDIA:
Foam, dry powder and water spray.

7. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Use personal protective equipment. Avoid contact with spilled product or contaminated surfaces. Keep unauthorized people away. An emergency shower must be readily accessible to the work area.

ENVIRONMENTAL PROTECTION: Do not allow into drains or waterways. If contamination of sewers or waterways has occurred advise local emergency services

CLEAN UP AND DISPOSAL: Sweep up for disposal in designated land fill sites by the relevant authority that do not burn its refuse. Triple or pressure rinse bag before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and roots. Break, crush, or puncture and bury containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit. Empty containers and product should not be burned.

8. HANDLING AND STORAGE

HANDLING: Avoid contact with the eyes and skin. Avoid inhaling the dust. When using the product wear rubber gloves. Wash hands after use.

STORAGE: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

TRANSPORT: According to AU01, Environmentally Hazardous Substances in packaging's, IBC or any other receptacle not exceeding 500 kg or 500 L are NOT subject to the ADG Code. If greater than 500kg or L than the product is subject to regulation associated with ADG Class 9.

9. EXPOSURE CONTROL/PERSONAL PROTECTION

EYE PROTECTION: Eye protection such as protective glasses or goggles is recommended when this product is being used.	PROTECTIVE MATERIAL TYPES: There is no specific recommendation for any particular protective material type.
SKIN PROTECTION: Avoid contact with product and that you wear long sleeved shirt and long pants with rubber gloves (preferably elbow-length) when skin contact is likely.	RESPIRATOR: A disposable dust mask must be to avoid dust inhalation.
EXPOSURE LIMITS (TWA): ASCC has set the an exposure standard for talc as TWA 2.5 mg/m ³	VENTILATION: This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

10. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White coloured powder with talc odour.	BOILING POINT: Not Applicable	SPECIFIC GRAVITY (20°C): No data.	FLAMMABILITY: Nil
FLASH POINT: No data.	VAPOUR DENSITY: No data	VAPOR PRESSURE (20°C): No data	SOLUBILITY: Nil

11. STABILITY AND REACTIVITY

STABILITY: Stable if stored in original container under normal ambient conditions.	INCOMPATIBILITY/ CONDITONS TO AVOID: Strong Acids, Strong Bases, Strong Oxidising Agents and halogen compounds.
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HAZARDOUS DECOMPOSITION PRODUCTS:

In the event of fire decomposition products such as hydrogen chloride, carbon monoxide and carbon dioxide can be released.

12. TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE: Inhalation, ingestion, eye and skin.

TOXICITY (PERMETHRIN): 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: The following symptoms may occur: Prolonged and repeated contact with skin, eyes or mucous membranes may cause irritation. Burning sensation, cough, sneezing, respiratory disorder, pulmonary oedema, nausea, vomiting, diarrhoea, abdominal pain, salivation, dizziness, blurred vision, headache, anorexia, somnolence, coma, seizures, convulsions, tremors, ataxia, and muscular fasciculation.

CARCINOGENICITY No (ACGIH, IARC, NIOSH, ASCC)

13. ECOLOGICAL INFORMATION

ECOTOXICITY: (Permethrin):

Toxicity to fish: LC50 (Guppy (*Poecilia reticulata*)) 0.0076 mg/L Exposure time: 96 h
Toxicity to aquatic invertebrates: EC50 (Water flea (*Daphnia magna*)) 0.00017 mg/L Exposure time: 48 h
Toxicity to aquatic plants: EC50 (*Selenastrum capricornutum*) 0.497 mg/L Exposure time: 96 h

14. DISPOSAL

WASTE DISPOSAL METHOD: Triple or pressure rinse bag before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and roots. Break, crush, or puncture and bury containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit. Empty containers and product should not be burned.

15. TRANSPORT INFORMATION

UN NO: Not Applicable

SPECIAL PROVISIONS: Not applicable

SHIPPING NAME: Not applicable

16. REGULATORY INFORMATION

POISONS SCHEDULE: Exempt

HAZARD CATEGORY: Not classified

PACKAGING AND LABELLING: Not set

CLASSIFICATION: 2.1 Flammable gas.

16. OTHER INFORMATIONS

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, 7th Edition

SWA Safe Work Australia, formerly ASCC and NOHSC

CAS Number Chemical Abstracts Service Registry Number

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

UN: United Nations Number

TWA: Time weight average.

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