

Material Safety Data Sheet

Product Name: **Ant, Spider & Cockroach Killer**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Address: Suite 3, 19-23 Clarinda Road Oakleigh South, Victoria, AUSTRALIA, 3167
Telephone: (03) 9543 5600
Fax (02) 9543 5300
Emergency 13 11 26
Use(s) Insecticide to control ants, spiders, cockroaches, carpet beetles, fleas, silverfish and clothes moths.
MSDS Date 1st June 2011

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia - HAZARDOUS SUBSTANCE.

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail - NON DANGEROUS GOODS.

Risk Phrases:

May cause sensitisation by skin contact. May cause lung damage if swallowed. Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Safety Phrases:

Keep out of reach of children. Do not breathe vapours or spray mists. Avoid contact with skin and eyes. After contact with skin, wash immediately with soap and water. If swallowed contact a doctor or Poisons Information Centre immediately and show this container or label. If swallowed, do not induce vomiting : seek medical advice immediately and show this MSDS.

Poisonous Schedule:

S5 Caution

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Risk Phrases	CAS No.	Content
PERMETHRIN	R22 R43 R50/53	52645-53-1	10%
OTHER NON HAZARDOUS INGREDIENTS	-	-	TO 100%
HYDROCARBON SOLVENT	R11	64742-94-5	>70%

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 11 26 from anywhere in Australia (0800 764 766) and is available at all times. Have this MSDS with you when you call.

Eye

If in eyes, flush the eye continuously with lukewarm, gently flowing water until the product is removed. Seek medical advice if irritation becomes painful or lasts more than a few minutes.

Inhalation

Remove victim from area of exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water (use non abrasive soap if necessary for 5 minutes or until chemical is removed). If swelling, redness, blistering or irritation occurs seek medical assistance.

Ingestion

If swallowed, do NOT induce vomiting. Give them a glass of water. Wash mouth with water and contact a Poison Information Centre on 13 11 26 (Australia wide) or a doctor (at once).

Advice to Doctor

Treat symptomatically. Note the nature of this product.

5. FIRE FIGHTING MEASURES

Fire & Explosion Hazards

This is a C1 combustible product. There is no risk of explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation may occur upon application of direct water stream on hot liquids. Vapours from the product are heavier than air and may accumulate in low-lying places, forming potentially explosive mixtures. They may also flashback considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Precautions for fire fighters and special protective equipment

Fire fighters to wear self contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Prevent run off of fire water to avoid contaminating waterways.

Suitable Extinguishing Media

Preferred extinguishing media are carbon dioxide, dry chemical, foam and water fog.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

SMALL SPILLS: Wipe up with an absorbent (clean rag or paper towels). Allow absorbents to dry before disposing with normal household garbage.

LARGE SPILLS: Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain – prevent run off drains and waterways. Use absorbents (soil, sand or other inert materials) Collect and seal properly labelled containers or drums for disposals. Ensure legality of disposal by consulting local regulations prior to disposal.

7. STORAGE AND HANDLING

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

Storage

Note that this product is combustible and therefore for Storage meets the definition of Dangerous Goods in some States. If storing large quantities consult your State's Dangerous Goods authority to clarify storage obligations. Store in cool, dry, well ventilated area, away from direct sunlight and removed from extreme heat and open flames. Ensure that that the product does not come in contact with substances listed under Section 10. Check packaging, there may be further storage instructions on the label. Keep containers closed and sealed when not in use.

Handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Keep out of reach of children. Do not smoke around the product. Thoroughly launder protective clothing before storage or re-use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No value assigned for this item by the NOHSC. Permethrin is set at 5mg/m³.

Engineering Controls

Use in well ventilated or mechanically exhausted area.

PPE

Avoid contact with eyes and skin. Do not inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Follow label instructions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	LIQUID	Solubility (water)	EMULSIFIABLE WITH WATER
Odour	HYDROCARBON	Specific Gravity	0.93
pH	NOT AVAILABLE		
Vapour Pressure	20°C at 5.9kPa (ETHANOL)		
Vapour Density	NOT AVAILABLE	Flash Point	>61cC
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Auto ignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of use.

Material to Avoid

Strong acids, strong bases, strong oxidising agents.

Decomposition

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death.

Conditions to avoid

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Avoid contact with food stuffs.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Permethrin is harmful to non-harmful via the oral route, with reported LD50 Permethrin of 430-4000 mg/kg. Via dermal route it is not harmful with LD50 in rates over 4000mg/kg and in rabbits >2000 mg/kg. Permethrin caused mild irritation of both the intact and abraded skin of rabbits. It also caused conjunctivitis when applied to eyes. The 4-hour inhalation LC50 for rats was greater than 23.5 mg/L, indicating almost no inhalation toxicity.

Chronic Toxicity

No adverse effects were observed in dogs fed Permethrin at doses of 5mg/kg/day for 90 days. Rats fed 150mg/kg/day for 6 months showed a slight increase in liver weights. Very low levels of Permethrin in the diet of chickens (0.1 ppm for to 6 weeks after hatching) have been reported to suppress immune system activity.

Reproductive Effects

The fertility of female rats was affected when they received very high oral doses of 250 mg/kg/day of Permethrin during the 6-15th day of pregnancy. It is not likely that reproductive effects will be seen in humans under normal circumstances.

Organ Toxicity

Permethrin is suspected of causing liver enlargement of the liver and nerve damage. Effects on the immune system have been noted in animal studies.

Inhalation

Product may be mildly irritating, although unlikely to cause anything more than transient discomfort.

Ingestion

Significant oral exposure is considered unlikely. Because of the low viscosity of this product, it may enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death. This product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Skin

Contact with skin may result in irritation. A skin sensitizer. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Eye

This product may be irritating to eyes, although unlikely to cause anything more than transient discomfort.

12. ECOLOGICAL INFORMATION

Effects on birds

Permethrin is practically non-toxic to birds. LD50>9900 mg/kg (Mallard ducks), >13,500 mg/kg (pheasants)

Effects on aquatic organisms

Aquatic ecosystems are very vulnerable to the impact of Permethrin.

The 48 hour LC50 = 0.0125mg/L for 24 hours and 0.0054 mg/L for 48 hours (rainbow trout)

The 48 hour LC50 = 0.0018mg/L (bluegill sunfish and salmon)

Effects on bees and other organisms

Permethrin is toxic to bees and severe losses may be expected if bees are present at treatment time, or within a day thereafter. Also toxic to wildlife. It should not be applied, or allowed to drift to crops or weeds in which active foraging takes place.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; NOT DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for Transport by sea; NOT DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air; NOT DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification

This Material is hazardous according to criteria of Safe Work Australia HAZARDOUS SUBSTANCE.

Poisons Schedule

S5 Caution

Disclaimer

This document is based on information concerning the product which has been provided to BGP by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

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