

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

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SurefireTM COCKROACH, SPIDER, INDOOR & OUTDOOR PEST

This product is NOT classified as a Hazardous Substance according to the criteria of the National Occupational Health & Safety Commission.

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Surefire Cockroach, Spider, Indoor & Outdoor Pest
Product Code: none
Product Use: Liquid insecticide for use as per the label directions
Poison Schedule: S6
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 1 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055

Emergency telephone No: 1800 630 877

Other Information: This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

MSDS Creation Date: 12th November, 2009

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid suspension concentrate

Ingredients	CAS NO.	Concentration
Alpha-Cypermethrin	67375-30-8	15g/l
Propylene Glycol	57-55-6	<100g/l
Water		to 100%

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eyes:	Irritating to the eyes
Skin:	Contamination of the skin, especially the face, may result in initial stinging followed by numbing which may persist for a few hours.
Ingestion:	May be slightly toxic based on acute animal studies.
Inhalation:	Inhalation of spray may cause transient irritation of nasal and buccal mucosa.
Primary Routes of Entry:	Eyes, Skin, Inhalation, Ingestion
Target Organs:	Eyes, Skin, Respiratory Tract, Digestive System
Carcinogenicity:	Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen. In studies with laboratory animals, alpha-cypermethrin technical did not cause teratogenicity or reproductive toxicity. The overall results from a battery of genotoxicity studies indicate that alpha-cypermethrin is not genotoxic. Ames test results were negative.

4. FIRST AID MEASURES

Eyes:	Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.
Skin:	Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.
Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.
Inhalation:	Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.
First Aid Facilities:	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
General Advice:	Remove soiled or soaked clothing immediately.
Information for doctor:	Diazepam may be useful in controlling hyper-excitability and/ or convulsions. Symptomatic and supportive treatment is indicated. In cases of skin contact, it has been reported that topical applications of Vitamin E acetate was found to have very high therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids.

5. FIRE-FIGHTING MEASURES

Flash Point:	Non-flammable & non-combustible
Autoignition Temperature:	Not applicable.
Upper Explosion Limits:	Not applicable.
Lower Explosion Limits:	Not applicable.
Suitable Extinguishing Media:	Foam, carbon dioxide, dry powder, water spray,
By-products in case of Fire:	The product will not burn but may release irritating fumes.
Further Information:	Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.
Special Protective Equipment for Firefighters:	As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

Advice on protection against fire and explosion:

Not flammable- no special measures required.

Storage information: Keep product in the original container, tightly closed, in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS No	Basis	Type	Value	Note
Glycerin mist	56-81-5	NOHSC	TWA	10mg/m ³	

General protective Measures:

Avoid contact with eyes and skin
Do not inhale mists.

Hygiene Measures: No smoking, eating or drinking allowed when using this product.
Wash hands before breaks and at end of work shift.
Protective ointment is recommended.

Respiratory Protection:

In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

Hand Protection: Elbow length PVC gloves should be worn when using this product.

Eye Protection: Safety goggles and/or face shield is recommended when using this product.

Protective clothing; Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.

Engineering Controls: Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White / light tan liquid suspension concentrate

Odour: Practically no odour.

Solubility in Water: Miscible with water.

Specific Gravity

(H₂O=1): approx. 1.02 @ 20°C

pH Value: 5 – 7 @ 25°C

Vapour Pressure: n/a

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Melting Temperature: not measured
Boiling temperature: about 100°C
Viscosity, dynamic: not measured

10. STABILITY AND REACTIVITY

Conditions to avoid: None with proper storage and handling, other than extreme heat.
Thermal Decomposition: Not measured, although if involved in a fire, the formation of irritating fumes can be expected.
Hazardous reactions: No hazardous reactions with proper storage and handling
Hazardous Polymerization: Unlikely to occur.
Stability: Stable under normal conditions of storage and use.
Hazardous decomposition products: None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: LD₅₀ (rat) 79 – 475 mg/kg approx.
Acute Toxicity - Inhalation: LC₅₀ (rat) >0.32mg/L exposure time 4h method
Acute Toxicity - Dermal: LD₅₀ (rat) >2000mg/kg
Eye Irritation: (Species - rabbit) slight irritant
Skin Irritation: (Species - rabbit) mild irritant
Skin Sensitisation: (Species - guinea pig) non-sensitising
Note: harmful by inhalation and in contact with skin
Irritant to skin
The toxicological data refer to the undiluted 100% product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:
Acute Toxicity – Fish: LC₅₀ for rainbow trout is 0.0028 mg/L.
Acute Toxicity - Daphniae: EC₅₀ for daphnia magna is 0.1 – 0.1 µg/L.
Acute Toxicity - Bees: LD₅₀ for bees is 0.059 µg/bee.
Acute Toxicity – Birds: LD₅₀ for Japanese Quail is >10000 mg/Kg
Further ecological information:
Ecological notes: Alpha-Cypermethrin is rapidly degraded in soil. It is rapidly hydrolysed under basic conditions (pH = 9) but, under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. It has a high affinity for organic matter, yet because of the ease with which the material undergoes degradation, it has a very low potential for bioaccumulation. It is not mobile in soil.

13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Product Disposal: In accordance with local authority regulations, take to special waste incineration plant.
Container Disposal: Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep in a disposal pit specifically marked and set up for

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this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Storage and Transport: Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

APVMA Approval №: 58395/1/0704

Risk Phrases: R36 Irritating to the eyes
R43 May cause sensitization by skin contact

Safety Phrases: S2 Keep out of reach of children
S24/25 Avoid contact with the skin and eyes
S35 This material and its container must be disposed of in a safe way
S36/37 Wear suitable protective clothing, gloves & eye/face protection

Poisons Schedule: S6

Packaging &

Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category

AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

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

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...End of MSDS...