

MATERIAL SAFETY DATA SHEET

This product is harmful if swallowed. It is NOT a designated Hazardous Substance according to the criteria of the National Occupational Health & Safety Commission.

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1. IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Product name: ZENITH[®] RESIDUAL INSECTICIDE

Other names: None
Formulation type: Suspension Concentrate
Poison Schedule: S6
Recommended use: insecticide for use as described on the product label.
Supplier: PCT International Pty Ltd
Address: Unit 1/ 74 Murdoch Cct, ACACIA RIDGE QLD 4110
Telephone: (07) 3711 7022
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Contact: David Pearson
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2. COMPOSITION of/ INFORMATION on/ INGREDIENTS

Ingredients	CAS No	Proportion
Alpha-Cypermethrin	67375-30-8	50g/l
Propylene Glycol	57-55-6	<100g/l
Water		to 100%

3. HAZARDS IDENTIFICATION

Hazard Designation: NOT designated a Hazardous Substance according to the criteria of the National Occupational Health & Safety Commission.

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

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

4. FIRST AID MEASURES

General Information: Symptoms of overexposure include tremors, loss of motor control, numbing, burning and tingling sensations. These sensations are reversible, and usually subside within 12 hours. If poisoning occurs, contact a doctor or Poisons Information Centre. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Inhalation of spray may cause transient irritation of nasal and buccal mucosa. Remove patient to fresh air. If breathing discomfort occurs or persists, obtain medical attention.

Skin Contact: Contamination of the skin, especially around the face, may result in initial stinging followed by a numbing sensation which may persist for a few hours. Wash with plenty of soap and water. If irritation occurs or persists, obtain medical attention.

Eye Contact: Irritating to the eyes. Hold eyes open and flood with water for at least 15 minutes and seek medical attention.

Ingestion: The product has low oral toxicity. Large doses administered to laboratory animals have produced symptoms such as loss of motor control, tremors, motor ataxia and hypersensitivity to sound.

Advice to Doctor: The product has low acute oral and dermal toxicity. It is moderately toxic by inhalation and minimally irritating to the eyes and may irritate the skin. Do not administer milk, cream or other substances which contain vegetable fats, as they enhance adsorption of the active ingredient. Central nervous system stimulation can be controlled with sedation by barbiturates or similar. Reversible skin sensations (paraesthesia) may occur and ordinary skin salves have been found to be useful in reducing discomfort. Otherwise, treatment is controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Slightly combustible- material may support combustion at elevated temperatures.

Fire Extinguisher type: Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

Fire Fighting Procedures & Precautions: Isolate fire area, and evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus.

Hazardous Decomposition Products: Carbon Monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and hydrogen fluoride.

Flash Point: >100°C

Flammability Class: non-flammable.

6. ACCIDENTAL RELEASE/ SPILLS MEASURES

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. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and this material then be placed in sealed, 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. Do not burn empty containers or product. To decontaminate spill area, tools and equipment, wash with a suitable solution of organic solvent, detergent, bleach or caustic, and add this, once used, to the drums of waste already collected. Label all contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local and State Waste Management Authorities.

7. HANDLING AND STORAGE

Handling: Use personal protective equipment as detailed below when handling, preparing or using the product.

Storage: Store in a cool, dry, well ventilated location, away from food and feedstuffs. Avoid excess heat or sources of ignition, and store in original containers only. Keep out of reach of children and animals. No smoking, eating or drinking should be allowed where the product is used or stored.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits: None applicable.

Ventilation: No special ventilation requirements other than local exhaust ventilation in an area where vapour or mist may be emitted.

Personal Protective Equipment: When preparing mix and using the prepared mix, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and a face shield. Wash hands after use. After each days use, wash gloves and contaminated clothing.

Eye Protection: Where potential for splash, spray or mist exists, wear protective goggles or a face shield.

Respirator: For splash, vapor or mist exposure, wear a properly fitting half-face or full face air purifying respirator approved for pesticides.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical Appearance: White to light tan liquid.

Odour: Almost no odour.

Specific Gravity: About 1.02 at 20°C

Water Solubility: Soluble in water.

Volatility: Not available.

Evaporation Rate: Not available.

Flash Point: > 100°C

pH: 5 – 7

10. STABILITY & REACTIVITY

Reactivity: No data available.

Incompatibilities: No particular incompatibilities.

Fire Decomposition: Carbon Monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Chronic Toxicity: No data available on this formulation. 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. Kidney and liver damage is possible from over-exposure to aromatic hydrocarbons over long periods. Some reversible haematopoietic depression has been observed in animals with extended exposure to aromatic hydrocarbons.

12. ECOLOGICAL INFORMATION

Effects on Birds: Alpha-Cypermethrin is slightly toxic to birds.

Effects on Aquatic Organisms: Alpha-Cypermethrin is considered highly toxic to fish and aquatic arthropods.

Environmental Persistence & Degradation: Alpha-Cypermethrin has a high affinity for organic matter. Because of the ease with which the material degrades, it has a very low potential for bioaccumulation and is not mobile in soil.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN Number: None allocated.

Class and Subsidiary Risk: None allocated.

Packing Group: None allocated.

Hazchem Code: None allocated.

Poison Schedule: S6

15. REGULATORY INFORMATION

APVMA Approval No: 53510/1200

16. OTHER INFORMATION

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

The above information is correct and accurate to the best of our knowledge. However, no warranty, expressed or implied, is made as to its accuracy or completeness of data herein. Further research and investigation may be required for your particular use of this product.

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