

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

ABN 44 101 170 923

Unit 1 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110

sales@pct.au.com

Ph: 61 7 3711 7022

Fax: 61 7 3711 7055

ZENITH™

residual insecticide

Classified as non-hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: ZENITH residual insecticide
Product Code: none
Product Use: for use on a range of insect pests as described on the product label.
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** (all hours)

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 Revision Date: 29th September, 2009

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid suspension concentrate

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

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3. HAZARDS IDENTIFICATION

Emergency Overview non-hazardous substance ; non-dangerous goods

Physical Appearance

Form: Liquid
Colour: white
Odour: practically no odour
Water Solubility: forms a suspension
pH: 5 - 7

Potential Health Effects

Eyes: Irritating to the eyes
Skin: Contact with the skin, especially around the face, may result in initial stinging and burning sensations, followed by numbing. This may persist for several hours.
Ingestion: The product is harmful if swallowed. Symptoms of overexposure include tremors, loss of motor control, numbing, burning and tingling sensations.
Inhalation: Inhalation of spray may cause transient irritation of mucous membranes of the nose, throat and respiratory tract for up to 24hrs.
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

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: Carefully remove any contaminated clothing, including footwear, and wash affected areas with plenty of soap and water. If concerned, seek medical attention.
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: 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

Flash Point: >100°C
Autoignition Temperature: Slightly combustible- material may support combustion at elevated temperatures..
Upper Explosion Limits: Not applicable.
Lower Explosion Limits: Not applicable.

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- Suitable Extinguishing Media:** Water spray, carbon dioxide, foam or dry chemical. Do not use a water jet from a fire hose.
- By-products in case of Fire:** In the event of a fire the following can be released:
Heating and/or combustion will generate carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and hydrogen fluoride.
- 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.

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

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 (properly fitting half-face or full-face) 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White liquid suspension concentrate
Odour:	Practically no odour.
Solubility in Water:	Forms a suspension.
Specific Gravity (H₂O=1):	approx. 1.02 @ 20°C
pH Value:	5 - 7
Vapour Pressure:	not determined
Melting Temperature:	not measured
Boiling temperature:	>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.
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:	LD ₅₀ (rat) 3,184 mg/kg approx.
Acute Toxicity - Inhalation:	LC ₅₀ (rat) >6.4mg/L exposure time 4h method
Acute Toxicity - Dermal:	LD ₅₀ (rat) >2000 mg/kg
Eye Irritation:	(Species - rabbit) slight irritant
Skin Irritation:	(Species - rabbit) non - 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% formulated product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	
Acute Toxicity – Fish:	LC ₅₀ for rainbow trout is 0.0028µg/L.(96h)
Acute Toxicity - Daphniae:	EC ₅₀ for daphnia magna – 0.1 – 0.3µg/L.(48h)
Acute Toxicity – Bees:	LD ₅₀ for bees is 0.059µg/bee (24h)
Acute Toxicity – Birds:	LD ₅₀ for Japanese Quail is >10k mg/Kg
Further ecological information:	
Ecological notes:	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. The ecotoxicological data refer to the undiluted 100% product.

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

14. TRANSPORT INFORMATION

Storage & Transport: Considered to be non-dangerous goods for transport by road or rail. 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.

15. REGULATORY INFORMATION

APVMA Approval No: 53510/1200

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.
S36/37 Wear suitable protective clothing, gloves & eye/ face protection.

Poisons Schedule: S5

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

Note: this MSDS replaces our previous MSDS dated Nov04.

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

Any advice, recommendation, information, assistance or service provided by PCT International Pty Ltd in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer for any liability or responsibility on the part of PCT International Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and when implied by statute, common law, custom of the trade or otherwise, are to the extent that the law permits, expressly excluded.

...End of MSDS...