

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

CroPro ZEUS[®]

Termi ti ci de and Insecti ci de

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: CroPro ZEUS termiticide and insecticide
Product Code: none
Product Use: termiticide and 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
Website: www.pct.au.com
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 emulsifiable concentrate

Ingredients	CAS NO.	Concentration
Bifenthrin	82657-04-3	100g/L
Aromatic hydrocarbon solvent	64742-94-5	562g/L
N-Methyl-2-Pyrrolidone	872-50-4	50g/L

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3. HAZARDS IDENTIFICATION

Emergency Overview Hazardous substance ; Non-dangerous goods ; Harmful to aquatic organisms.

Physical Appearance

Form: Liquid
Colour: Light brown
Odour: Characteristic
Water Solubility: Soluble
pH: n/a

Potential Health Effects

Eyes: Moderately irritating to the eyes
Skin: May cause slight irritation, dermal sensitization or skin tingling.
Ingestion: Harmful if swallowed.
Inhalation: This product may be harmful if inhaled. Avoid breathing vapor, spray or fumes. Inhalation of aromatic hydrocarbon vapours may cause dizziness, vision disturbance, and irritation to the eyes, skin and mucous membrane of the respiratory and gastrointestinal tract.

Primary Routes of

Entry: Eyes, Skin, Inhalation, Ingestion
Target Organs: Eyes, Skin, Respiratory Tract, Digestive System
Carcinogenicity: The EPA has classified Bifenthrin as a class C carcinogen- a possible human 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: 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:

Bifenthrin, the active ingredient in this product is a pyrethroid insecticide. The formulation also contains liquid hydrocarbons that can cause severe pneumonitis or fatal pulmonary oedema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise symptomatic and supportive. 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: 68°C.
Autoignition Temperature: N/A.
Upper Explosion Limits: Not applicable.
Lower Explosion Limits: Not applicable.
Suitable Extinguishing Media: Soft stream water, foam, CO₂ or dry chemical. Contain all runoff,
By-products in case of Fire: In the event of a fire the following can be released:

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Further Information:	- Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride. 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:

Storage information:

Not flammable- no special measures required.
Store in tightly sealed original containers in a dry, cool, well ventilated, secure area away from sources of heat, ignition or direct sunlight. Store away from fertilizers, seed, feed and food. Keep out of reach of children, unauthorized persons and animals.

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 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:	Light brown liquid
Odour:	Characteristic odour.
Solubility in Water:	Emulsifies with water.
Specific Gravity (H₂O=1):	approx. 0.93 @ 20°C
pH Value:	not known
Vapour Pressure:	not known
Melting Temperature:	not measured
Boiling temperature:	not measured
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 carbon dioxide, carbon monoxide, smoke 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:	LD ₅₀ (rat) 632 mg/kg approx.
Acute Toxicity - Inhalation:	LC ₅₀ (rat) >11.58mg/L exposure time 4h method
Acute Toxicity - Dermal:	LD ₅₀ (rat) 1850mg/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 Risk of serious damage to eyes The toxicological data refer to the undiluted 100% product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	
Acute Toxicity – Fish:	LC ₅₀ for rainbow trout is 0.00015mg/L. (96h)
Acute Toxicity - Daphniae:	EC ₅₀ for daphnia magna is 0.0016 mg/L. (96h)
Acute Toxicity – Birds:	LD ₅₀ for Japanese Quail is 1800 mg/Kg
Further ecological information:	
Ecological notes:	Bifenthrin is rapidly degraded in soil with a half-life of 50- 205 days. It is rapidly hydrolysed under basic conditions (pH= 9) but, under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. Bifenthrin 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 and has extremely low water solubility.

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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

Road & Rail Transport: CroPro ZEUS is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Product is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-



UN No. : 3082
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 10% Bifenthrin).
Dangerous Goods Class : 9
Subsidiary Risk : None Allocated
Pack Group : III

15. REGULATORY INFORMATION

APVMA Approval No: 58368/1L/1203
Risk Phrases: R22 Harmful if swallowed.
Safety Phrases: S24 Avoid Contact with skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and 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...