

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

ABN 44 101 170 923

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Harmful if swallowed. Classified as hazardous according to criteria of Safe Work Australia

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: ANTSTAR Granular Insecticide
Product Code: none
Product Use: For the control of pests in turf; ants, fleas and ticks in external surrounds of buildings and structures as specified in Directions of Use Table.
Poison Schedule: none
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)

MSDS Creation Date: 30th August 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Granular Insecticide

Ingredients	CAS No	Concentration
Bifenthrin	82657-04-3	2 g/Kg
Quartz [Silica crystalline]	14808-60-7	>900g/Kg
Other non-hazardous ingredients	----	to 100%
TOTAL		100%

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3. HAZARDS IDENTIFICATION

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

Physical Appearance

Form: Solid
Colour: Off-White
Odour: strong characteristic odour
Water Solubility: Insoluble.
pH: not available

Risk phrases: None established.
Safety Phrases: S2 Keep out of reach of children.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.

Potential Health Effects

Eyes: Irritating to the eyes
Skin: May cause slight irritation
Ingestion: Because of the low levels of active constituent in this product the risk of serious poisoning by ingestion is considered to be low.
Inhalation: The risk of poisoning by dust inhalation is relatively low but the dust will irritate mucous membranes and cause sinuous discomfort.
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

Symptoms: Symptoms of acute exposure may include numbness, tingling sensations, incoordination, headaches, dizziness, tremor, nausea, abdominal cramps, sweating, blurred vision, breathing difficulty and slow heartbeat. Very high doses may result in unconsciousness, incontinence and convulsions.

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 contaminated clothing immediately.

Information for doctor:

Bifenthrin, the active ingredient in this product is a pyrethroid insecticide. 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.

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5. FIRE-FIGHTING MEASURES

Fire and Explosion

Hazards: This product is slightly combustible, but does not constitute an explosion risk under normal circumstances if it is involved in a fire.

Fire Extinguisher type: Foam, CO₂, dry chemical or soft stream water fog. Contain all runoff.

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

Hazardous Decomposition

Products: On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

Flash Point: Not determined.

Flammability Class: Only slightly combustible.

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.

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. Spills should be swept or vacuumed up. Avoid breathing dust. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. The recovered material should 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 readily 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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	TWA - 0.1 mg/m ³ Note: this refers to the Crystalline Silica component.	STEL – not set.
Ventilation:	No special ventilation requirements are necessary for this product, but ensure that airborne product dust is minimized.	
Eye Protection:	Protective glasses or goggles are recommended when using this product.	
Skin Protection:	Make sure all skin is covered when using the product by wearing impervious PVC gloves, cotton overalls buttoned to the neck and wrists, washable hat and impervious boots.	
Respirator:	A suitable dust mask is recommended when there is a chance that airborne product dust might build up in the area where Antstar is being used.	
Hand Protection:	Elbow length PVC gloves should be worn 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 dust levels.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description:	Off-white granulated solid.
Odour:	Mild musty odour.
Specific Gravity:	No data available.
Water Solubility:	Practically insoluble in water.
Volatility:	No data available.
Odour Threshold:	No data available.
Evaporation Rate:	No data available.

10. STABILITY AND REACTIVITY

Reactivity:	This product is unlikely to react or decompose under normal conditions of storage or use.
Conditions to Avoid:	None known.
Incompatibilities:	None known.
Fire Decomposition:	Carbon Monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.
Polymerisation:	This product is unlikely to undergo any polymerization process.
Stability:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	None with proper storage and handling.

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11. TOXICOLOGICAL INFORMATION

- Acute Toxicity - Oral:** LD₅₀ (rat) = >5,000 mg/kg.
Acute Toxicity - Inhalation: LC₅₀ (rat) = no data available
Acute Toxicity - Dermal: LD₅₀ (rabbit) = >2000mg/kg
Eye Irritation: (Species - rabbit) slight irritant
Skin Irritation: (Species - rabbit) slight irritant
Skin Sensitisation: (Species - guinea pig) non-sensitising
Note: Being a granule, this product is unlikely to be an inhalation hazard, nor a hazard in contact with skin
- Chronic toxicity:** No data available on this formulation, but studies with laboratory animals showed Bifenthrin technical did not cause teratogenicity or reproductive toxicity.

12. ECOLOGICAL INFORMATION

- Ecotoxicity Effects:**
Acute Toxicity – Fish: LC₅₀ for rainbow trout is 0.15 µg/Lt.
Acute Toxicity - Bees: 48h LD₅₀ for bees is 0.1 µg / bee.
Acute Toxicity – Birds: LD₅₀ for Bobwhite Quail is 2,108 mg/Kg
Ecological information – fate in soil:
Bifenthrin degrades in soil at a moderate rate (half - life of 50 to 205 days).

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

If transporting by sea or air the following Dangerous Goods Classification applies:

UN No: 3077,
Class: 9 (Miscellaneous Dangerous Goods),

Packing Group: III,



Proper Shipping Name:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 0.2% bifenthrin).

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15. REGULATORY INFORMATION

APVMA Approval No: 67014/xx/54963
Risk phrases: None established.
Safety Phrases: S2 Keep out of reach of children.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
Poisons Schedule: not allocated
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.
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...