

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

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Antout*

GRANULAR INSECTICIDE

Harmful if swallowed. Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: ANTOUT Granular Insecticide
Product Code: none
Product Use: insecticide for external control of ants around houses and gardens.
Poison Schedule: S5
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 5 / 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: 27th April, 2013

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Granular Insecticide

Ingredients	CAS No	Concentration
Chlorpyrifos	2921-88-2	50 g/Kg
Other non-hazardous ingredients	-----	950 g/Kg
TOTAL		100%

MATERIAL SAFETY DATA SHEET

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

Potential Health Effects

Eyes: Irritating to the eyes
Skin: May cause slight irritation
Ingestion: The acute oral toxicity of the active constituent, Chlorpyrifos, is high (LD₅₀ 115 mg/Kg). 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:

Chlorpyrifos is a cholinesterase inhibitor. Atropine by injection or Atrovent/ipratropium by airway puffs are the desirable antidotes. Oximes such as 2 PAM/protopam may be therapeutic if used early but only in conjunction with atropine.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: This product does not constitute an explosion risk under normal circumstances if it is involved in a fire.

Fire Extinguisher type: This product is not combustible. Use extinguishing media suited to the burning materials.

Fire Fighting Procedures & Precautions: This material does not burn, but decomposition byproducts may be irritating if inhaled.

MATERIAL SAFETY DATA SHEET

Hazardous Decomposition

Products: Carbon Monoxide, Oxides of Phosphorous and other Phosphorous compounds, Hydrogen Chloride and other Chlorine compounds.

Flash Point: Not applicable- the material does not burn.

Flammability Class: Does not burn.

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. 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:

Storage information: Not flammable- no special measures required.

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

Exposure Limits: TWA - 0.2 mg/m³ 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.

MATERIAL SAFETY DATA SHEET

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 Antout 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 mercaptan 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, Oxides of Phosphorous and other Phosphorous compounds, Hydrogen Chloride and other Chlorine compounds.
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.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral:	LD ₅₀ (rat) = 95 - 270 mg/kg..
Acute Toxicity - Inhalation:	LC ₅₀ (rat) = > 0.2 mg/L/hr. (4H)
Acute Toxicity - Dermal:	LD ₅₀ (rat) = >2000mg/kg
Eye Irritation:	(Species - rabbit) slight irritant
Skin Irritation:	(Species - rabbit) slight 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 100% technical active.

MATERIAL SAFETY DATA SHEET

Chronic toxicity: Repeated or prolonged exposure to organophosphates may result in the same effects as acute exposure including the delayed symptoms. Other effects reported in workers repeatedly exposed include impaired memory and concentration, disorientation, severe depressions, irritability, confusion, headache, speech difficulties, delayed reaction times, nightmares, sleepwalking, and drowsiness or insomnia.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:

Acute Toxicity – Fish: LC₅₀ for rainbow trout is 0.009 mg/Lt.

Acute Toxicity -

Bees: 48h LD₅₀ for bees is 0.059 µg / bee.

Acute Toxicity –

Birds: LD₅₀ for Bobwhite Quail is 108 mg/Kg

Ecological information – fate in soil:

Chlorpyrifos is moderately persistent in soils. The half-life of chlorpyrifos in soil is usually between 60 and 120 days, but can range from 2 weeks to over 1 year, depending on the soil type, climate, and other conditions. The soil half-life of chlorpyrifos was from 11 to 141 days in seven soils ranging in texture from loamy sand to clay and with soil pHs from 5.4 to 7.4. Chlorpyrifos was less persistent in the soils with a higher pH. Soil half-life was not affected by soil texture or organic matter content. In anaerobic soils, the half-life was 15 days in loam and 58 days in clay soil. Adsorbed chlorpyrifos is subject to degradation by UV light, chemical hydrolysis and by soil microbes. When applied to moist soils, the volatility half-life of chlorpyrifos was 45 to 163 hours, with 62 to 89% of the applied chlorpyrifos remaining on the soil after 36 hours. In another study, 2.6 and 9.3% of the chlorpyrifos applied to sand or silt loam soil remained after 30 days. Chlorpyrifos adsorbs strongly to soil particles and it is not readily soluble in water. It is therefore immobile in soils and unlikely to leach or to contaminate groundwater. TCP, the principal metabolite of chlorpyrifos, adsorbs weakly to soil particles and appears to be moderately mobile and persistent in soils.

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.

15. REGULATORY INFORMATION

APVMA Approval №: 45227/0501

Risk Phrases: R21/ 22 Harmful in contact with skin and if swallowed.

Safety Phrases: S20 When using, do not eat or drink.
S24/ 25 Avoid contact with skin and eyes.

MATERIAL SAFETY DATA SHEET

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

This MSDS updates our previous one dated Mar 08.

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

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...End of MSDS...