

# MATERIAL SAFETY DATA SHEET



## PCT International Pty Ltd

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# NEMESIS<sup>TM</sup> termite bait

This product is harmful if swallowed. It is not a Hazardous Substance according to the criteria of Worksafe Australia

## 1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

**Product Name:** NEMESIS termite bait  
**Product Code:** none  
**Product Use:** An insect development inhibitor type insecticide for use as part of a termite interception and baiting system as per the product label.  
**Poison Schedule:** n/a  
**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](http://www.pct.au.com)

Emergency telephone No: **1800 630 877**

MSDS Creation Date: 12<sup>th</sup> November, 2009

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Formulation Type:** Powdered termite bait

Ingredients	CAS NO.	Concentration
Chlorfluazuron	71422-67-8	1g/kg
Alpha-cellulose	9004-34-6	to 100%

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## 3. HAZARDS IDENTIFICATION

Nemesis is not a Hazardous Substance according to the criteria of Worksafe Australia

### Potential Health Effects

<b>Eyes:</b>	Mildly irritating to the eyes
<b>Skin:</b>	Non- irritating.
<b>Ingestion:</b>	Not likely to be toxic in amounts that could be ingested in a single dose.
<b>Inhalation:</b>	May be slightly irritating. Exact effects on humans are not known.
<b>Primary Routes of Entry:</b>	Eyes, Skin, Inhalation, Ingestion
<b>Target Organs:</b>	Eyes, Skin, Respiratory Tract, Digestive System
<b>Carcinogenicity:</b>	Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen. Chlorfluazuron is not considered to be carcinogenic

## 4. FIRST AID MEASURES

<b>Eyes:</b>	Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.
<b>Skin:</b>	Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.
<b>Ingestion:</b>	Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.
<b>Inhalation:</b>	May cause irritation & coughing. 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.
<b>First Aid Facilities:</b>	If suspected poisoning occurs, contact a doctor or Poisons Information Centre on <b>13 11 26</b> (Australia).
<b>Information for doctor:</b>	No specific antidote available. Supportive care is required. Treatment should be based on the judgement of the doctor in response to reactions of the patient.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	Not applicable.
<b>Autoignition Temperature:</b>	Not applicable.
<b>Upper Explosion Limits:</b>	Not applicable.
<b>Lower Explosion Limits:</b>	Not applicable.
<b>Suitable Extinguishing Media:</b>	Foam, carbon dioxide, dry powder, water spray,
<b>By-products in case of Fire:</b>	Toxic, irritating fumes may be formed if product is involved in a fire.
<b>Further Information:</b>	Keep unnecessary persons away from the area. If safe to do so, remove intact containers. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.
<b>Special Protective Equipment for Firefighters:</b>	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 swept up carefully into newspaper or similar (when product is in a powdered form). If the product has been mixed with water, any spillage should be absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this

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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<sup>mm</sup> 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. Otherwise, no specific precautions are needed in the handling of the product by the end user under normal conditions of 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. Store well away from other pesticides, food and feed. 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 dusts.

#### Hygiene Measures:

No smoking, eating or drinking allowed when using this product.  
Wash hands before breaks and at end of work shift.

### Respiratory

#### Protection:

Not required under normal conditions of use.

#### Hand Protection:

Not required under normal conditions of use.

#### Eye Protection:

Not required under normal conditions of use.

#### Protective clothing:

Cotton overalls buttoned to the neck and wrist, and a washable hat, are suggested when using this product.

#### Engineering Controls:

No specific requirements needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance:

White powder

#### Odour:

Nil.

#### Solubility in Water:

0.016ppm. Mixes with water.

#### Specific Gravity

#### (H<sub>2</sub>O=1):

0.25 approx.

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** None with proper storage and handling, other than extreme heat.

### Thermal

#### Decomposition:

Toxic, irritating fumes may be formed if the product is involved in a fire

#### 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.

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## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity - Oral:** LD<sub>50</sub> (rat) >5000 mg/kg approx.  
**Acute Toxicity - Inhalation:** LC<sub>50</sub> (rat) >7.0 mg/L exposure time 4h method  
**Acute Toxicity - Dermal:** LD<sub>50</sub> (rat) >2000 mg/kg  
**Eye Irritation:** (Species - rabbit) slight irritant  
**Skin Irritation:** (Species - rabbit) non - irritant  
**Skin Sensitisation:** (Species - guinea pig) non-sensitising  
**Note:** non-hazardous active ingredient according to WHO classification.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:**  
**Acute Toxicity – Fish:** LC<sub>50</sub> for carp is >300 mg/L.  
**Acute Toxicity –Bees:** LD<sub>50</sub> for bees is >100 µg/L  
**Acute Toxicity –Birds:** LD<sub>50</sub> for Japanese Quail is >2510 mg/Kg  
**Further ecological information:**  
**Ecological notes:** This product is considered to be non-toxic to bees & birds. This product is highly toxic to aquatic invertebrates. Bait should not be placed in any area where, because of the movement of water, it could become submersed or could be washed out of a station. Particular care should be taken not to place Nemesis in an area where it could be washed into bodies of water containing aquatic life, such as ponds or streams.

## 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 rinseate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, 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<sup>mm</sup> 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 №:** 58922/20x100g/0105  
**Risk Phrases:** n/a    **Safety Phrases:** n/a    **Poisons Schedule:** n/a  
**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...