

MATERIAL SAFETY DATA SHEET – TERMINADE



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terminade*

RESIDUAL TERMITICIDE

Classified as hazardous according to criteria of NOHSC

MSDS Creation Date: 10th August, 2012

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: TERMINADE termiticide
Product Code: none
Product Use: termiticide for use as per the label directions
Poison Schedule: S5
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

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.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid Suspension Concentrate

Ingredients	CAS NO.	Concentration
Fipronil	120068-37-3	100 g/L
Water	7732-18-5	85 %
Other ingredients determined not to be hazardous	N/A	0-10 %

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3. HAZARDS IDENTIFICATION

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

Physical Appearance

Form: Liquid
Colour: Light Yellow
Odour: Characteristic
Water Solubility: Soluble
pH: 7 - 9

Risk Phrases:

R22 Harmful if swallowed.

R23 Toxic by inhalation.

R48/25 Toxic- danger of serious damage to health by prolonged exposure if swallowed.

Safety Phrases:

S1/2 Keep locked up and out of reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S36 Wear suitable protective clothing.

S45 In case of accident or if you feel unwell seek medical advice immediately

S63 In case of accident by inhalation, remove casualty to fresh air and keep at rest.

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:

Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring - due to slow elimination of the compound.

5. FIRE-FIGHTING MEASURES

Flash Point: None up to 100°C.

Autoignition Temperature: Not applicable.

Upper Explosion Limits: Not applicable.

Lower Explosion Limits: Not applicable.

Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray,

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- By-products in case of Fire:** In the event of a fire the following can be released:
-Carbon monoxide, nitrous oxide, sulphur and compounds of chlorine and fluorine
- 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

Components	CAS No	Basis	Type	Value	Note
Glycerin mist	56-81-5	NOHSC	TWA	10mg/m ³	

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.

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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.
National Exposure Standards:	No exposure standards have been set for this product or the active ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White / beige liquid suspension concentrate
Odour:	Slight characteristic odour.
Solubility in Water:	Miscible with water.
Specific Gravity (H₂O=1):	approx. 1.05 – 1.07 @ 20°C
pH Value:	7.0 – 9.0 @ 25°C
Vapour Pressure:	3.7 x 10 ⁻⁴ mPa @ 20°C
Melting Temperature:	not measured
Boiling temperature:	decomposes before boiling
Auto-Ignition Temperature:	>400°C

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 hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrous oxides can be expected.
Hazardous reactions:	No hazardous reactions with proper storage and handling, but keep away from strong oxidising agents
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

Inhalation:	Breathing in high concentrations of spray mist may cause headache, nausea, dizziness and weakness.
Ingestion:	Symptoms of exposure include: headache, nausea, dizziness and weakness. Ingestion of large quantities of the concentrate may result in convulsions.
Skin:	Not a skin irritant and not harmful by dermal exposure.

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Eye: The concentrate will cause severe irritation and possible damage unless washed off immediately.

Reproductive Toxicity: No reproductive effects.

Mutagenicity: No mutagenic effects.

Carcinogenicity: No carcinogenic effects.

Acute Toxicity – Oral: LD₅₀ (rat) 1099 mg/kg - formulated product

Acute Toxicity – Dermal: LD₅₀ (rabbit) 2493 mg/kg - formulated product

Acute Toxicity – Inhalation: LC₅₀ (rat) (4hr) 1.07 mg/l - formulated product

Eye Irritation: The product is an eye irritant.

Skin Irritation: Mild skin irritant.

Skin Sensitisation: Not a skin sensitiser.

Other Information: The Australian Acceptable Daily Intake (ADI) for fipronil is 0.0002 mg/kg/day, based on the NOEL of 0.02 mg/kg/day.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:

Acute Toxicity - Fish: (data for the active ingredient, fipronil).

LC₅₀ (96hr) - bluegill sunfish is 0.085 mg/l.

LC₅₀ (96hr) - rainbow trout is 0.248 mg/l.

LC₅₀ (96hr) - european carp is 0.430 mg/l.

Acute Toxicity - *Daphnia Magna*: LC₅₀ (48hr) - daphnia is 0.19 mg/l

Acute Toxicity - Algae *Scenedesmus subspicatus*: EC₅₀ (72hr) 0.068 mg/l.

Acute Toxicity - Other Organisms: (data is for the active ingredient, fipronil).

LD₅₀ for mallard duck is 5000 mg/kg

LD₅₀ for bobwhite quail is 48 mg/kg

Highly toxic to bees both by direct contact and/or by ingestion.

Further ecological information:

Ecological notes: This product is considered to be a water pollutant. It is classified as immobile in soil and is not expected to leach. Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100% product.

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.

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14. TRANSPORT INFORMATION

If shipping by sea, the following applies- **MARINE POLLUTANT**

UN No. : 3082
Shipping Name : **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**
(contains 10% Fipronil)

Dangerous Goods Class : 9
Subsidiary Risk : None Allocated
Pack Group : III
Hazchem Code : 2Z



EPG: n/a
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 No: 63502/xx/45817
Poisons Schedule: S5
Packaging & Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category: TOXIC
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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