

Section 1 - Identification of Chemical Product and Company

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Trade Name: Pest Controllers Own Bifenthrin 100 SC
Other Name: PCO Bifenthrin 100 SC
Product Use: Insecticide and Termiticide
Issued: April 2014

Section 2 - Hazards Identification

Statement of Hazardous Nature

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Risk Phrases: R20/22 Harmful by inhalation and if swallowed;

Safety Phrases: S2 Keep out of reach of children; S23 Do not breathe vapour/spray

SUSMP Classification: S6

Emergency Overview

Physical Description & colour: Light beige to white liquid

Odour: Mild odour

Major Health Hazards: Harmful if swallowed or inhaled

Potential Health Effects

Ingestion: Very Toxic, harmful if swallowed

Eye Contact: This product is irritating to the eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased.

Skin: Irritating to skin. Repeated or prolonged skin contact may lead to contact dermatitis

Inhalation: Very Toxic - Harmful if inhaled

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

| <u>Ingredients</u> | <u>CAS No</u> | <u>Conc (%)</u> |
|--------------------|---------------|-----------------|
| Bifenthrin | 82657-04-3 | 10 |
| Water | 7732-18-5 | >60 w/w |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia and is available at all times. Have this MSDS with you when you call.

Inhalation: Remove victim to fresh air. Seek medical attention if irritation or breathing difficulties arise

Skin Contact: Remove contaminated clothing and immediately wash thoroughly with soap and water. Seek medical attention if irritation develops. Launder clothing before reuse.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. Seek medical attention if irritation persists.

Ingestion: If swallowed, immediately rinse mouth out with water. **Do not induce vomiting.** Contact Poisons Information Centre or doctor.

Note To Physician / First Aiders: Treat Symptomatically. The active ingredient in this product (Bifenthrin) is a pyrethroid insecticide

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: Thermal decomposition and burning may produce toxic by-products.

Extinguishing Media: Water fog (or unavailable fine water spray), foam dry agent (carbon dioxide, dry chemical powder).

Fire Fighting: Fire fighters to wear breathing apparatus.

Flash point: Not applicable

Flammability Limits: Not relevant

Auto ignition temperature: No data

Flammability Class: Not relevant

Section 6 - Accidental Release Measures

Spillage: In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including Face mask, face shield, gauntlets and self contained breathing apparatus. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Storage: Store in cool, dry, well ventilated area removed from combustible materials, herbicides, fungicides and foodstuffs. Ensure containers are labelled, protected from physical damage and sealed when not in use. Keep from extreme heat and open flames and make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits **TWA (mg/m³P)** **STEL (mg/m³P)** **ADI (mg/Kg/day)** **NOEL (mg/Kg/day)**

Exposure limits have not been set by SWA for any ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values from Australian ADI List, 31st March 2012

Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: Avoid high mist or vapour concentration and provide local exhaust ventilation where necessary.

Eye Protection: Eye protection such as protective glasses or goggles is essential when using this product.

Skin Protection: Wear gloves or gauntlets and long sleeves when using this product to protect against skin irritation

Respirator: Use P2 type canister respirator where high concentrations of airborne mist or vapour are present

Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour: Light beige to white liquid

Odour: Mild odour

Flash Point: Not applicable

Vapour Pressure: No data

Specific Gravity: 1.024 @ 20°C

Solubility: Suspends in water

Auto ignition temp: Not applicable

Corrosiveness: Non corrosive

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. Will react with oxidising agents

Conditions to Avoid: Heat, flames.

Incompatibilities: Strong oxidising agents

Fire Decomposition Products: May emit toxic fumes

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Toxicity to Animals: Data applies to active constituent bifenthrin only

Oral (Rat): LD₅₀ = 54-70 mg/kg

Section 12 - Ecological Information

Ecotoxicology: Active Ingredient only – Bifenthrin

Aquatic Toxicity: The active ingredient is very toxic to aquatic organisms.

96 hr LC₅₀ (Rainbow trout): 0.00015mg/L; 96 hr LC₅₀ (Bluegill sunfish): 0.00035mg/L;

96hr LC₅₀ (Daphnia magna): 0.0016mg/L

Terrestrial Toxicity: Bifenthrin is moderately toxic to many species of birds.

8 Day Oral LC₅₀ (Mallard ducks): 1,280ppm; 8 Day Oral LC₅₀ (Bobwhite Quail): 4,450ppm

Acute Oral LC₅₀ (Mallard ducks): 2,150mg/kg; Acute Oral LC₅₀ (Bobwhite Quail): 1,800mg/kg

There is a concern about possible bio accumulation of the active ingredient (Bifenthrin) in birds

Environment: Do not contaminate streams, rivers or waterways with this product or the used container

Section 13 - Disposal Considerations

Disposal: There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/>



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Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good for transport by road or rail.

IMDG & IATA: Classified as a Dangerous Good for transport by sea (Marine pollutant) and air

UN No: 3082

Class: 9 Miscellaneous Dangerous Goods **Packing Group:** III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BIFENTHRIN).

Section 15 - Regulatory Information

Poison Schedule: A poison schedule number (S6) has been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

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

Acronyms:

| | |
|-----------------------|--|
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail |
| AICS | Australian Inventory of Chemical Substances |
| ASCC | Australian Safety & Compensation Council |
| CAS number | Chemical Abstracts Service Registry Number |
| Hazchem Number | Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Authority |
| IMDG | International Maritime Dangerous Good |
| NOHSC | National Occupational Health and Safety Commission |
| NTP | National Toxicology Program (USA) |
| R-Phrase | Risk Phrase |
| SUSMP | Standard for the Uniform Scheduling of Medicines & Poisons |
| SWA | Safe Work Australia (formerly ASCC and NOHSC) |
| UN Number | United Nations Number |

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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