

MATERIAL SAFETY DATA SHEET

This product is harmful if swallowed. It is a designated Hazardous Substance according to the criteria of Worksafe Australia

This revision issued: February 2006

1. IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Product name: FIVESTAR[®] INSECTICIDE

Formulation type: Suspension concentrate
Poison Schedule: S6
Recommended use: insecticide for control of a range of pests as described on the product label.
Supplier: PCT International Pty Ltd
Address: Unit 1/ 74 Murdoch Cct, ACACIA RIDGE QLD 4110
Telephone: (07) 3711 7022
Fax: (07) 3711 7055
Website: www.pct.au.com
Contact: David Pearson
Emergency telephone No: 1800 630 877

2. COMPOSITION of/ INFORMATION on/ INGREDIENTS

Ingredients	CAS No	Proportion
Bifenthrin	82657-04-3	80g/l
Other non-hazardous ingredients	---	5- 20%
Water	7732-18-5	to 100%

3. HAZARDS IDENTIFICATION

Risk Phrases: R22 Harmful if swallowed
R20 Harmful by inhalation

Safety Phrases: S2 Keep out of reach of children
S13 Keep away from food, drink & animal feedstuff.
S23 Do not breathe vapour or spray.

SUSDP Classification: S6

ADG Classification: none allocated

UN Number: 3082

4. FIRST AID MEASURES

General Information: Bifenthrin is harmful to mammals when ingested. Large doses may cause incoordination, tremor, salivation, vomiting, diarrhoea, and irritability to sound and touch. Although it does not cause inflammation or irritation on human skin, it can cause a tingling sensation which lasts about 12 hours.

Inhalation: Remove patient to fresh air. If breathing discomfort occurs, contact a doctor.

Skin Contact: Remove any contaminated clothing immediately and wash skin thoroughly with plenty of soap and water. See a doctor if irritation persists.

Eye Contact: Flush eyes with water for at least 15 minutes. If irritation occurs or persists, seek medical attention.

Ingestion: If poisoning occurs, consult a doctor or the Poisons Information Centre (Phone **131126**). Do not induce vomiting or give anything by mouth to an unconscious person.

Advice to Doctor: The active constituent of this product, Bifenthrin, is a pyrethroid insecticide. It has moderate oral toxicity and causes minimal irritation to eyes and skin. After removal of the patient from exposure, treatment is symptomatic and supportive. Digestible fats, oils, alcohol and milk products increase absorption and should be avoided.

5. FIRE FIGHTING MEASURES

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

Fire Extinguisher type: Soft stream water fog, foam, CO₂ or dry chemical. Contain runoff.

Fire Fighting Procedures & Precautions: Isolate area, and evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated. Keep containers cool with soft stream water fog.

Hazardous Decomposition Products: Carbon Monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

Flash Point: >100°C

Flammability: The product has low flammability.

6. ACCIDENTAL RELEASE/ SPILLS MEASURES

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

Store product in original containers, tightly capped, in a cool, dry, well ventilated area. Avoid excess heat and prolonged exposure to direct sunlight. Keep out of reach of children and animals. Keep separate from food or animal feedstuffs. Wash all exposed skin surfaces prior to smoking, drinking or eating. Persons handling the product should shower at the end of each work day, and wash all clothing after each use.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits:	No exposure limit has been set for this material by Worksafe Australia.
Ventilation:	Local exhaust ventilation should be used when filling or emptying this product. Thoroughly ventilate all transport vehicles prior to unloading.
Personal Protective Equipment:	For normal handling, wear long sleeve overalls buttoned to the neck and wrists, and head covering.
Eye Protection:	Avoid contact with eyes. Where potential for splash, spray or mist exists, wear chemical protective goggles or a full face shield. Emergency eye wash facilities should be located nearby.
Skin Protection:	Wear chemical protective elbow length gloves of rubber, neoprene or PVC when handling the product. Inspect regularly for leaks.
Respirator:	For splash, vapour or mist exposure protection, wear a half-face respirator approved by Australian Standards for pesticides.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical Description:	White liquid.
Odour:	Almost odorless.
Specific Gravity:	1.024 at 20°C.
Water Solubility:	Insoluble. Product forms a suspension.
Boiling Point:	Not available.

10. STABILITY & REACTIVITY

Reactivity:	Non-corrosive product.
Incompatibilities:	None known.
Fire Decomposition:	Carbon Monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Toxicity:	No data available on toxicity in humans.
Chronic Toxicity:	No data available on this formulation.
Reproductive Effects:	There is no evidence of reproductive toxicity or genotoxicity.
Carcinogenic status:	The EPA has classified bifenthrin as a Class C carcinogen, a possible human carcinogen.
Animal Toxicity Data:	In studies with laboratory animals, Bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure to Bifenthrin by dogs, rats, rabbits and mice. Studies indicate that Bifenthrin is not considered to be genotoxic.

12. ECOLOGICAL INFORMATION

Effects on Birds: Bifenthrin is moderately toxic to many species of birds, and is toxic to bees.

Effects on Aquatic Organisms: Very highly toxic to fish, crustaceans and aquatic animals.

Environmental Persistence & Degradation:

Low mobility in most types of soil. Its half-life in soil is 7 days to 8 months depending on the soil type and the amount of air in the soil. It is also relatively insoluble in water, so it has a low potential for contaminating groundwater.

13. DISPOSAL CONSIDERATIONS

Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsings to the spray tank or dispose of the rinsings 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

UN Number: 3082
Proper Shipping Name: Bifenthrin
Class and Subsidiary Risk: 9
Packing Group: III
Hazchem Code: Not classified as a dangerous goods for transport purposes.

15. REGULATORY INFORMATION

APVMA Approval No: 59452/1/1005

16. OTHER INFORMATION

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

The above information is correct and accurate to the best of our knowledge. However, no warranty, expressed or implied, is made as to its accuracy or completeness of data herein. Further research and investigation may be required for your particular use of this product.

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