

MATERIAL SAFETY DATA SHEET

CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE

Section 1: Identification of the Product and Company

Product name: CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE

Other names: Bifenthrin 100 g/lit Suspension concentrate (Biforce 10 SC)

Use: For the control of a range of pests in Turf and Ornamental plants.

Company name & Contact details **Sherwood Chemicals Australasia Pty Ltd**
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Other information: All reasonable care has been taken to ensure the information and advice contained in this data sheet is accurate at the time of printing. However, Sherwood Chemicals accepts no liability for any loss or damages suffered as a consequence of reliance upon the information contained herein.

Section 2: Hazards Identification

Hazard classification: This product is classified as Hazardous according to the criteria of NOHSC Australia.
See below for Risk and Safety Phrases.

Risk Phrases: R22 Harmful if swallowed
R36 Harmful if inhaled

Safety Phrases: S2 Keep out of reach of children
S7 Keep container tightly closed
S13 When using, do not eat or drink.
S23 Do not breath vapour or spray and avoid contact with eyes.
S25 Avoid Contact with the eyes.

Section 3: Composition / Information on Ingredients

Chemical entity	CAS N ^o	Proportion
Bifenthrin	82657-04-3	100g/L
Other non hazardous ingredients		< 20%
Water	7732-18-5	>60%

Section 4: First Aid Measures

CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE

FIRST AID:

You should call the Poisons Information Centre if you feel you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia and is available at all times. Have this MSDS with you when you call.

Eye:

Quickly and gently blot or brush away product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until a few minutes after irritation has ceased, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Ingestion:

If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Inhalation:

No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin:

Blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing and obtain medical advice.

ADVICE TO DOCTOR -

Treat symptomatically

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:

Extinguishing Media - Soft stream water fog, Foam, CO₂ or dry chemical. Contain all runoff.

Degree of Hazard - Slightly combustible. Avoid excess heat and fire. Thermal decomposition and burning may produce toxic by-products.

Special Fire Fighting Procedures - Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated. Try to keep containers cool with soft stream water fog.

Hazardous Decomposition Products - Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen

Section 6: Accidental Release Measures

In the event of a major spill, prevent spillage from entering drains or water courses and contain and absorb spilled material with absorbent material such as sand clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Immediately call the fire brigade. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Suitable materials for protective clothing include rubber, PVC, Viton. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. 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

Safe handling practices: Exercise safe handling practices at all times

Storage: Store in a cool, dry, well ventilated location. Avoid excess heat. No smoking eating or drinking should be allowed where material is used or stored. Keep out of the reach of children and animals. Store in original containers only. Do not locate near or contaminate food or feed by storage or disposal. Wash all exposed skin surfaces prior to smoking drinking or eating. All workers should shower at the end of each work day after handling this product. Wash all clothing after each use.

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Other information: Nil

Section 8: Exposure Controls and Personal Protection

Engineering controls: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Personal protection:

Work Clothing: For normal handling wear long sleeve uniform or overalls and head covering. For larger exposures, as in the case of spills, wear full body cover barrier suit, such as rubber rain suit.

Eye protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product.

Respirator: Usually, no respirator is necessary when using this product. Eyebaths or eyewash stations should be provided near to where this product is being used.

Section 9: Physical and Chemical Properties

Chemical:	Bifenthrin
Appearance:	Beige to white, slight odour.
Flashpoint:	>100 Deg C Not Flammable
Solubility In Water:	Insoluble. Active suspended in water
Corrosive Hazard:	Non corrosive; compatible with aluminum, HDPE, glass and phenolic lined steel containers.
Specific Gravity:	1.03 approx at 20°C
Flammability:	Not flammable - Combustible
Poisons Schedule:	S6

Section 10: Chemical Stability and Reactivity Information

Chemical stability:	Stable at normal temperature and pressure
Conditions to avoid:	Excess heat, ignition sources
Incompatibility:	Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidizing agents or food stuffs.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and nitrogen oxides, may be produced during combustion.
Hazardous polymerisation:	Unlikely to occur.

Section 11: Toxicological Information

Potential Health Effects:

CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE

Studies with laboratory animals have shown this product to be harmful if swallowed. Ingestion of large doses of Bifenthrin by laboratory animals produced signs of toxicity which included clonic convulsions, tremors and bloody nasal discharge. Irritating to eyes and respiratory system.

Acute

Swallowed: This product is harmful if swallowed; the acute oral LD50 (rat) = 540 mg/kg (calculated).

Eye: Not irritating.

Skin: This product has a low dermal toxicity. The dermal LD50 (rabbit) > 2000 mg/kg. Skin sensitising may occur in sensitive individuals.

Inhaled: This product is harmful if inhaled. Acute inhalation LC50 = 8.7 mg/L/4 hour (calculated).

Chronic: No data available on this formulation. In studies with laboratory animals, Bifenthrin Technical did not cause teratogenicity or reproductive toxicity. Tremors were associated with repeated exposure of dogs, rats, rabbits and mice to Bifenthrin. The overall results from a battery of genotoxicity studies indicate that Bifenthrin is not considered to be genotoxic. Ames test results were negative.

Section 12: Ecological Information

Environmental Toxicology: The active ingredient, Bifenthrin, is highly toxic to fish and aquatic arthropods with LC50 values ranging from 0.0038 µg/L to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on molluscs at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds with LC50 values range from 1800 mg/kg to > 2,150 mg/kg. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

Environmental Properties: The active ingredient, Bifenthrin, degrades at a moderate rate in agricultural soils ($t_{1/2}$ = 50 to 205 days), and more rapidly on the surface of bare soils ($t_{1/2}$ = 7 to 62 days). Bifenthrin is tightly bound in most soils and has extremely low water solubility.

Section 13: Disposal Considerations

Drum Disposal: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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. Do not re-use empty containers.

Section 14: Transport Information

Road or Rail Transportation

This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transportation

CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE is a **Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-**

UN 3082,

Class 9 (Miscellaneous Dangerous Goods),

Packing Group III,

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 10% Bifenthrin).

Section 15: Regulatory Information

CHAINDRITE BOUNCER 100SC T&O MULTI-INSECTICIDE

Poison Schedule

S6

**Agricultural or veterinary
chemicals legislation**

This product is registered for use by the APVMA.
AUSTRALIA APVMA Registration No. 62837

Section 16: Other Information

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END OF MSDS