

MATERIAL SAFETY DATA SHEET

Biforce Granular Insecticide

Section 1: Identification of the Product and Company

Product name:	Biforce Granular Insecticide
Other names:	Bifenthrin 2 g/kg Granular
Use:	Insecticide
Company name & Contact details	Sherwood Chemicals Australasia Pty Ltd Address: Level 3, 1060 Hay Street, WEST PERTH 6005 AUSTRALIA Tel: +61 8 9219 4683 Fax: +61 8 9219 4672 Web: www.sherwoodchemicals.com.au Emergency Telephone number: All hours +61 421 667972
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:	<ul style="list-style-type: none">• Classified as non-hazardous according to criteria of Worksafe Australia
Potential Health Effects:	This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner
Eye:	Slight eye irritant
Skin:	No effect expected
Ingestion:	May be harmful if swallowed
Inhalation:	Inhalation not likely.
Cancer Information:	The ingredients are not listed as carcinogenic in Worksafe's document "exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995)
Teratology (Birth defects):	Data suggests it is unlikely to cause reproductive birth defects
Mutagenicity:	No current data available

Section 3: Composition / Information on Ingredients

Chemical entity	CAS N°	Proportion
Bifenthrin	82657-04-3	2g/kg
Silica, Quartz	14808-60-7	> 60%
Other ingredients classified as non hazardous		To 100%

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Section 4: First Aid Measures

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:

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

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:

Flash Point: - Not applicable

Extinguishing Media – Carbon dioxide, dry chemical, foam, water fog

Fire and Explosion Hazards – If significant quantity of this product is involved in a fire, call the fire brigade. Fire decomposition products from this product may form toxic mixtures in confined spaces.

Fire fighting equipment – When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

Section 6: Accidental Release Measures

Action to take for spills:

In case of spills it is important to take all steps necessary to:

- Avoid eye and skin contact
- Avoid contamination of waterways
 1. Keep all bystanders away.
 2. Wear full-length clothing and PVC gloves
 3. Reposition any leaking containers so as to minimize further leakage
 4. Dam and absorb spill with an absorbent material (eg cat litter, sand or soil)
 5. Shovel the absorbed spill into drums and top with hydrated lime
 6. Disposal of the absorbent material will depend on the extent of the spill
 - For quantities up to 50L of the product bury in a secure land fill site.
 - For quantities greater than 50L seek advice from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
 7. Decontaminate spill area with hydrate lime scattered over the spill prior to rinsing off with water.

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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.
Other information:	Nil

Section 8: Exposure Controls and Personal Protection

Engineering guidelines:	Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
Engineering controls:	In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.
Recommendation for manufacturing, commercial blending, and packaging workers:	Avoid skin and eye contact and inhalation of dust. Wear overalls, chemical goggles and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available.
Eye / face protection:	Face and eye protection should be worn. For help in selecting suitable equipment consult AS 1336 and AS/NZS 1337
Skin protection:	Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots. For help in selecting suitable gloves consult AS 2161. For help in selecting suitable clothing consult AS 2919. For help in selecting boots consult AS/NZS 2210.
Respiratory protection:	Use in well-ventilated area. For help in selecting suitable equipment consult AS/NZS 1715.
Applications and all other handlers:	After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9: Physical and Chemical Properties

Chemical:	Bifenthrin
Appearance:	Light brown sand, slight to no odour
Volatile materials:	No specific data. Expected to be low at 100 degrees C.

Section 10: Chemical Stability and Reactivity Information

Chemical stability:	Stable at normal temperature and pressure
Incompatibility:	Avoid strong oxidizing agents.
Hazardous polymerisation:	Will not occur.

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Section 11: Toxicological Information

TOXICITY:

Bifenthrin is moderately toxic to mammals when ingested. Large doses may cause incoordination, tremor, salivation, vomiting, diarrhoea, and irritability to sound and touch. LD50 for Biforce is greater than 5,000g/kg in female rats. The LD50 for rabbits whose skin is exposed to Biforce is greater than 2,000mg/kg. Bifenthrin does not sensitize the skin of guinea pigs. Although it does not cause inflammation or irritation on human skin, it can cause a tingling sensation which lasts about 12 hours. It is virtually non-irritating to rabbit eyes.

Section 12: Ecological Information

Breakdown of chemical in soil and groundwater: Bifenthrin does not move in soils with large amounts of organic matter, clay and silt. It also has a low mobility in sandy soils that are low in organic matter. Bifenthrin is relatively insoluble in water, so there are no concerns about groundwater contamination through leaching. It's half-life in soil, the amount of time it takes to degrade to half of its original concentration, is 7 days to 8 months depending on the soil type and the amount of air in the soil.

Breakdown of chemical in vegetation: Bifenthrin is not absorbed by plant foliage, nor does it translocate in the plant

Section 13: Disposal Considerations

Disposal method: Dispose of empty, used containers by;

- a) Triple rinsing with water. Dispose of rinsate in a disposal pit away from desirable plants and roots and watercourses. On-site disposal of undiluted product is unacceptable.
- b) Breaking, crushing or puncturing the containers to prevent reuse.
- c) Disposing of in a local authority, bury landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50cm of soil at a licensed/approval disposal site. DO NOT Burn empty containers or product.

Section 14: Transport Information

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

UN NUMBER: None allocated

CORRECT SHIPPING NAME: None allocated

DANGEROUS GOODS CLASS: None allocated

SUB-CLASS:

PACKAGING GROUP:

SPECIAL PRECAUTIONS FOR USER: None allocated

HAZCHEM CODE: None allocated

MARINE TRANSPORT:

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods code (IMDG Code) for transport by sea.

AIR TRANSPORT:

Not classified as dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air.

Section 15: Regulatory Information

Poison Schedule None

**Agricultural or veterinary
chemicals legislation**

This product is registered for use by the APVMA.
AUSTRALIA APVMA Registration No. 63809

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Section 16: Other Information

Sherwood Chemicals Australasia Pty Ltd

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END OF MSDS