

Safety Data Sheet: Biforce Granular Insecticide

1. IDENTIFICATION

Product Name: Biforce Granular Insecticide
Other Names: Bifenthrin 2g/kg Granular
Recommended Use: Insecticide
Distributor: Key Industries Ltd
Address: PO Box 65 070 Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazard Classifications: 9.1A, 9.4B
Hazards: Approved Handler Applies

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Bifenthrin	82657-04-3	2g/kg
Silica, Quartz	14808-60-7	>60%
Other non-hazardous materials		To 100%

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 0800 POISON (0800 764 766) from anywhere in New Zealand and is available at all times. Have this SDS with you when you call.

Eyes: 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 the 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

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5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES:

Small Spills

Wear appropriate protective clothing whilst cleaning up small spills (see Personal Protection). Apply absorbent material such as earth, sand or clay granules to the spill. Sweep up material for disposal when absorption is complete. Clean up minor spills immediately.

Large Spills

Wear protective clothing. Clear the area of all unprotected personnel. Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or clay granules to spill area. Form a barricade around the spill and in front of drains or waterways in spill vicinity, using earth or other available material. Prevent entry of material into drains or water ways.

Waste Disposal Method

Contaminated absorbent and wash water should be disposed of according to local regulations under the Resource Management Act. Avoid contamination of any water supply with chemical or empty container.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear waterproof gloves and long sleeved clothing. Wear approved safety glasses or goggles. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, feed, or food by storage, handling, or disposal.

Read and observe all precautions and instructions on the label. Avoid contact with food, clothing, medicines or other household goods during transportation.

Conditions for safe storage

Store containers upright and closed. Store in a cool, dry place away from direct sunlight and in well-ventilated areas. Avoid freezing and keep away from heat and strong oxidizers. Emptied containers may retain product residues and therefore require rinsing before disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

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 for any of the

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ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established.

Engineering Controls

Use in well ventilated areas. No special engineering controls are required for normal use. Keep containers closed when not in use.

Hygiene Controls

Facilities for storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands and face after work.

Personal Protective Equipment

Respiratory Protection

Generally not required.

Eye Protection

Wear approved safety glasses.

Skin/Body Protection

Wear waterproof gloves and cover exposed arms and legs. Practice normal hygiene when opening the container and using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light brown sand
Odour	Slight to no odour
Physical State	Granule
pH	not established
Boiling Point	not applicable
Melting Point	not applicable
Flashpoint	not flammable
Flammable Limits	not applicable
Vapour Pressure	not established
Vapour Density	not established

10. STABILITY AND REACTIVITY

Chemical Stability

Product is considered stable at normal temperature and pressure.

Specific Materials to Avoid

Can react with strong oxidising agents.

Hazardous Polymerisation:

Will not occur.

11. TOXICOLOGICAL INFORMATION

3/441 - Constellation Dr

Acute Effects

Moderate toxicity to mammals when ingested.

Ingestion: Acute oral LD₅₀ rat >5000 mg/kg. If swallowed, may cause irritation to mouth, throat and stomach. May cause nausea and diarrhea.

Eye Contact: Non-irritant.

Skin Contact: Generally non-irritant, but may cause mild irritation in sensitive persons.

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Chronic Effects

No adverse effects are known from long term exposure.

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.

13. DISPOSAL CONSIDERATIONS

Product Disposal

This product should be disposed of according to local regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

14. TRANSPORT INFORMATION

This product is not classified as a Dangerous Good by the NZL TSA ref 45001.
Store apart from animal and human foodstuffs.

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

15. REGULATORY INFORMATION

MPI Approval Number:

EPA Approval Number: HSR000047

HSNO Classifications: 9.1A, 9.4B

HSNO Controls: None, not hazardous

16. OTHER INFORMATION

Reasons for Issue:

Update format and content to comply with legislation

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

Date of Issue: 23rd October 2012

Date of Revision: 23rd October 2017