



Material Safety Data Sheet

MSDS No.	2022	Issue Date : June 2007	Issued by Scotts Australia Pty Ltd
Product Name:	MAXGUARD 2G GRANULAR INSECTICIDE		

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	MAXGUARD 2G GRANULAR INSECTICIDE
Product Code	009050
Company Name	SCOTTS AUSTRALIA PTY LTD
Address	11 Columbia Way Baulkham Hills NSW 2153 Australia
Emergency Tel.	1800 033 111
Telephone/Fax Number	Tel:(02) 8853 7300 Fax:(02) 8853 7310
Recommended Use	Granular insecticide

2. HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the ASCC. Not classified as dangerous goods according to the Australian Dangerous Goods Code.
Risk phrases	No risk phrases have been established.
Safety phrases	S2- Keep out of reach of children. S22- Do not breath dust S24/25- Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	bifenthrin	82657-04-3	0.2% w/w
	Quartz (Silica crystalline)	14808-60-7	>90% w/w
	Other ingredients determined not to be hazardous	-	<5% w/w

4. FIRST AID MEASURES

Inhalation	Remove patient to fresh air.
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia (13 11 26).
Skin	If on skin or clothing, shake off and then wash skin with soap and water.
Eye	If in eyes, hold eyes open and flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.
Advice to Doctor	Bifenthrin, the active ingredient in this product is a pyrethroid insecticide. Bifenthrin is toxic by ingestion and highly toxic by inhalation. Gastric lavage with an endotracheal tube may be preferred to vomiting. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive. However, due to the very low concentration of bifenthrin in this product, symptoms are unlikely to be caused by this product.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, CO ₂ or dry chemical. Soft stream water fog if no alternatives.
Hazards from Combustion Products	Contain all runoff. On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride etc.
Special Protective Equipment for fire fighters	Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Isolate and post spill area. Keep out unprotected persons and animals. Wear prescribed protective clothing and equipment. Large spills should be dyked and covered to prevent dispersal. Keep material out of streams and sewers. Vacuum, shovel or pump spilled material into an approved container and if unable to use as directed on the label, dispose of as listed in section 13.
Materials & methods	To clean spill area, tools and equipment, wash with a solution of caustic or soda ash and an



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for containment and cleanup procedures appropriate alcohol (methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb any excess liquid and add to drums of waste that cannot be re-used. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

7. HANDLING AND STORAGE

Precautions for Safe Handling Ensure containers are kept closed until using product. Avoid skin and eye contact. Do not breathe dust. When opening the container and using granules, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

Conditions for Safe Storage Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Keep away from domestic pets, especially dogs. If dogs eat the granules, contact your veterinary surgeon immediately.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No ASCC exposure standard has been established for bifenthrin. The following standard may apply to the product:

Substance	TWA		STEL	
	Ppm	mg/m ³	ppm	mg/m ³
Silica crystalline (quartz) -	0.1	-	-	-

Biological Limit Values No biological limit allocated.

Engineering Controls Use in a ventilated area only. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

Respiratory Protection For dust exposure wear a properly fitted half face or full face air purifying respirator. Respirator selection is based on airborne concentrations.

Eye Protection Where potential for dust exists, wear chemical protective goggles or a face shield.

Hand Protection Wear chemical protective gloves made of materials such as PVC, rubber or neoprene. Wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

Body Protection Depending on circumstances encountered, wear long sleeve uniform or overalls. Launder all clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Tan, solid granules

Odour Slightly musty odour

Melting Point Not available

Boiling Point Not available

Solubility in Water Not soluble

pH Value Not available

Vapour Pressure Not available

Vapour Density (Air=1) Not available

Density 1.39g/mL

Auto-Ignition temperature

Flammable Limits Not established.

10. STABILITY AND REACTIVITY

Chemical Stability Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to Avoid No information available.

Incompatible Materials No information available.



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Hazardous Decomposition Products No information available.

Hazardous Polymerization No information available.

11. TOXICOLOGICAL INFORMATION

Inhalation As this product is a granule it is unlikely to be an inhalation hazard.

Ingestion This product has low oral toxicity. Acute Oral LD50 (rat) > 5000 mg/kg. Ingestion of large doses of bifenthrin (the active ingredient in this product) by laboratory animals produced signs of toxicity which included clonic convulsions, tremors and bloody nasal discharge. This product has only a very low proportion of bifenthrin (0.2%), and these symptoms are unlikely to be caused by this product.

Skin Non-irritating to the skin. Acute Dermal LD50 (rabbit) > 2000 mg/kg.

Eye Non-irritating to the eye. Excessive exposure to granules may cause irritation to the eyes. This product contains a granular material (sand) that may cause mechanical irritation to the eyes.

Chronic Effects No data available on this formulation. In studies with laboratory animals, Bifenthrin Technical (the active ingredient in this product) 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity 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 (LC50 values range from 1800mg/kg to > 2,150 mg/kg).

Persistence / Degradability No data is available on MaxGuard 2G. The active ingredient, bifenthrin (0.2%), degrades at a moderate rate in 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 an extremely low water solubility.

Environ. Protection Do not allow chemical or empty container to enter drains, streams or other waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations *Dangerous to Fish:* Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. Puncture, shred or bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information Not classified as dangerous goods according to the ADG Code. Classified as a marine pollutant according to IMDG & IATA. If transporting by sea or air the following classification applies:

UN number: 3077
Class: 9- miscellaneous
Packing Group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 0.2% bifenthrin)

15. REGULATORY INFORMATION

Regulatory Information APVMA No. 54257

Poisons Schedule Unscheduled



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16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Created: June 2007

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