



# Material Safety Data Sheet

MSDS No.	2034	Issue Date : September 2007	ISSUED by SCOTTS AU
Product Name :	MAXGUARD NPK FERTILISER WITH INSECTICIDE		

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	MAXGUARD NPK FERTILISER WITH INSECTICIDE
Product Code	009051
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	Granulated fertiliser + insecticide
Other Names	<u>Name</u> LAWN BUILDER + GRUB & INSECT CONTROL

## 2. HAZARDS IDENTIFICATION

Hazard Classification	Not classified as hazardous according to NOHSC. Not classified as dangerous goods according to the Australian Dangerous Goods Code.
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	Bifenthrin	82657-04-3	0.086%
	Urea	57-13-6	40-50%
	Ammonium phosphate	7722-76-1	<10%
	Potassium sulphate	7778-80-5	15-25%
	Sulphur	7704-34-9	<5%
	Other ingredients determined not to be hazardous		<5%

## 4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If full recovery does not occur obtain medical attention.
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre [phone 131126].
Skin	If on skin or clothing, remove any contaminated clothing, and wash skin thoroughly with soap and water. If irritation persists obtain medical attention.
Eye	Flush with water for 15-20 minutes. If irritation occurs and persists, obtain medical attention.
First Aid Facilities	Eye wash, water, soap.
Advice to Doctor	Bifenthrin, the active ingredient in this product is a pyrethroid insecticide. If large amounts have been ingested, milk, cream, or other digestible fats and oils may increase absorption and should be avoided.

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, foam, CO <sub>2</sub> .
Hazards from Combustion Products	Combustion can produce toxic fumes and irritating gases.
Special Protective Equipment for fire fighters	In the event of fire, wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	In the case of spillage contain spilled material and sweep or shovel up. If suitable return product to bag. Otherwise dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Wear prescribed protective clothing and
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equipment. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution [i.e. organic solvent, detergent, bleach or caustic] and add the solution to the drum/s of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

*Dangerous to fish: Do not allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.*

Container Disposal: Shake containers empty onto treatment site. Puncture or shred 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.

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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.
<b>Conditions for Safe Storage</b>	Store in the original container in a cool, dry, well-ventilated location. Keep out of the reach of children and animals. Do not locate near or contaminate food or feed by storage or disposal.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards: Substance	TWA ppm mg/m <sup>3</sup>	STEL ppm mg/m <sup>3</sup>
	New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards: Substance	TWA ppm mg/m <sup>3</sup>	STEL ppm mg/m <sup>3</sup>
<b>Biological Limit Values</b>	None allocated.		
<b>Engineering Controls</b>	Thoroughly ventilate all transport vehicles prior to unloading. General air replacement or dilution ventilation is sufficient for material handling and storage, but local exhaust ventilation should be used when filling or emptying this product.		
<b>Respiratory Protection</b>	For dust exposure where a half face dust mask.		
<b>Eye Protection</b>	Where potential for dusting or direct eye contact exists, wear goggles or safety glasses. Eye wash facilities should be located nearby. Avoid contact with the eyes.		
<b>Hand Protection</b>	Wear gloves when handling this product.		
<b>Personal Hygiene</b>	Wash hands after use and before eating, drinking or smoking.		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Multi-coloured granules
<b>Odour</b>	Earthy
<b>Melting Point</b>	Not available.
<b>Boiling Point</b>	Not available.
<b>Solubility in Water</b>	Slightly soluble.
<b>pH Value</b>	5-7
<b>Vapour Pressure</b>	Not available.



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Vapour Density (Air=1) Not available.  
 Density 0.78  
 Auto-Ignition temperature Not available.  
 Flammable Limits - Lower Not available.  
 Flammable Limits - Upper Not available.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable at normal temperatures.  
**Conditions to Avoid** Extreme heat. Contact with strong alkalis, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminium, magnesium, and chlorine compounds.  
**Incompatible Materials** Strong acids, bases, oxidizers, and reducing agents.  
**Hazardous Decomposition Products** Combustion may produce irritating gases and vapours. Toxic metal oxides may be produced.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** Unlikely to be a hazard. Should dust develop during handling and use this may cause respiratory tract irritation if inhaled.  
**Ingestion** The product has low toxicity if swallowed; however it may cause nausea, vomiting and diarrhoea.  
**Skin** The product is practically non-toxic, non-sensitising and non-irritating. May cause redness or irritation with prolonged contact.  
**Eye** May cause eye irritation.  
**Chronic Effects** No data is available on this product [formulation]. In studies with bifenthrin, the active ingredient, it did not cause reproductive toxicity or teratogenicity in laboratory animals. 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, but has no effect on molluscs at its limit of water solubility. It is only slightly toxic to birds.  
For bifenthrin  
 Acute Oral LD50 [Rat] = 632 mg/kg  
 Acute Dermal LD50 [Rabbit] = >2000 mg/kg  
 Acute Inhalation LC50 = >0.25 mg/L/4 hr.  
 LC 50 96hr [Rainbow trout] = 0.15 ppb  
 LC 50 96hr [Bluegill] = 0.35 ppb  
 Oral LD50 [Mallard duck] = >2150 mg/kg  
 Oral LD50 [ Bob-white quail] = 1800 mg/kg  
 Dietary LC50 8 day [Mallard duck] = 1280 ppm  
 Dietary LC50 8 day [Bob-white quail] = 4450 ppm  
**Persistence / Degradability** Bifenthrin degrades at a moderate rate in soils [t 0.5 = 50 to 205 days], and more rapidly on the surface of bare soils [t 0.5 = 7 to 62 days]. Bifenthrin is tightly bound in moist soils and has extremely low water solubility.  
**Environ. Protection** Do not contaminate sewers, drains, dams, creeks or any other waterway with the product or the used container.



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### 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Shake containers empty onto treatment site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm 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.

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### 14. TRANSPORT INFORMATION

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**Transport Information** Not classified as dangerous goods according to the Australian Dangerous Goods Code.

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### 15. REGULATORY INFORMATION

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**Regulatory Information** APVMA no. 57765  
**Poisons Schedule** Not scheduled.

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### 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Created: September 2007  
**Contact Person/Point** 11 Columbia Way  
Baulkham Hills  
NSW 2153 Australia  
Phone (02) 8853 7300  
Fax (02) 8853 7310  
Emergency Tel: 1800 033 111  
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