



# Material Safety Data Sheet

MSDS No.	1043	Issue Date : October 2007	ISSUED by SCOTTS AU
Product Name :	<b>DEFENDER ROSE PRIDE FUNGICIDE, INSECTICIDE &amp; MITICIDE</b>		

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	DEFENDER ROSE PRIDE FUNGICIDE, INSECTICIDE & MITICIDE 3 IN 1 SPRAY
Product Code	
Manufacturer	SCOTTS AUSTRALIA PTY LTD
Address	11 Columbia Way Baulkham Hills NSW 2153 Australia
Emergency Tel.	1800 033 111
Telephone/Fax	Tel:(02) 8853 7300
Number	Fax:(02) 8853 7310
Recommended Use	Combination fungicide/Insecticide

## 2. HAZARDS IDENTIFICATION

Hazard Classification	Not classified as hazardous according to ASCC. Not classified as dangerous goods according to the ADG Code.
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	Bifenthrin	82657-04-3	0.0028%
	Myclobutanil	88671-90-0	0.0074%
	Other ingredients deemed non-hazardous	Undisclosed	<5%
	Water		>95%

## 4. FIRST AID MEASURES

General advice	Contains bifenthrin and may cause an allergic reaction.
Inhalation	Remove to fresh air. If full recovery does not occur seek medical attention.
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126, New Zealand 0800 764 766).
Skin	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, seek medical attention.
Eye	Flush with water for 15-20 minutes. If irritation occurs and persists, seek medical attention.
First Aid Facilities	Eye wash, water, soap
Advice to doctor	Bifenthrin, an 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 mist or foam, powder, carbon dioxide (CO2).
Hazards from Combustion Products	Unsuitable extinguishing media: high volume water jet. Danger of toxic gases in smoke- carbon and nitrogen oxides, hydrochloric acid.
Special Protective Equipment for fire fighters	Use personal protective equipment. Self-contained breathing apparatus and suitable protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Contain spilled substance using absorbent material such as sand or vermiculite and sweep or shovel up. Wear prescribed protective clothing and 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
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suitable solution. (i.e. organic solvent, detergent, bleach or caustic) and add the solution to the drum/s of waste 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 sewer, drains, dams, creeks or any other waterways.*

Container disposal: single containers may be wrapped in paper, placed in a plastic bag and then put in the garbage. Otherwise 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.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands and exposed skin after use/handling.
<b>Conditions for Safe Storage</b>	Store in original container. Keep tightly closed in a dry and cool place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	No exposure standards have been established for this substance by the ASCC.
<b>Biological Limit Values</b>	None allocated.
<b>Engineering Controls</b>	Ensure adequate ventilation.
<b>Respiratory Protection</b>	Do not inhale spray mist.
<b>Hand Protection</b>	Wear rubber gloves when handling this product.
<b>Eye/face protection</b>	Where potential for direct eye contact exists, wear goggles or safety glasses. Eye wash facilities should be located nearby. Avoid contact with the eyes.
<b>Skin and body Protection</b>	For normal handling wear long sleeve shirt or overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light blue clear liquid
<b>Odour</b>	Not available
<b>Melting Point</b>	Not applicable
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Miscible in water
<b>pH Value</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Specific gravity</b>	1.000
<b>Decomposition temperature</b>	Not available
<b>Flashpoint</b>	Not flammable
<b>Flammable Limits</b>	Not flammable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Testing has shown the product to be stable for at least two years after the date of manufacture when stored under normal conditions.
<b>Conditions to Avoid</b>	No information available



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**Materials to avoid** No information available

**Hazardous** No information available

**Decomposition Products**

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** Unlikely to be a hazard. The product is not volatile.  
**Ingestion** The product has low toxicity when 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.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** For Bifenthrin  
Acute Oral LD50 (rat) = 632mg/kg  
Acute Dermal LD50 (rabbit) = >2000mg/kg  
Acute Inhalation LC50 = >0.25mg/L/4 hr  
LC50 96 hr (Rainbow trout) = 0.15 ppb  
LC50 96 hr (Bluegill) = 0.35 ppb  
Oral LD50 (Mallard duck) = >2150mg/kg  
Oral LD50 (Bob-white quail) = 4450 ppm  
For Myclobutanil  
Acute Oral LD50 (rat) = 1870mg/kg  
Acute Dermal LD50 (rabbit) = >5000 mg/kg

**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. Myclobutanil is degraded in soil. The half life is approximately 66 days in sandy loam. It has a half life in water of 15-25 days. Myclobutanil is tightly bound by soil and will not leach to any extent.

**Environ. Protection** 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. Myclobutanil is toxic to fish and aquatic vertebrates but of very low toxicity to birds. Do not contaminate sewers, drains, dams, creeks or any other waterway with the product of the used container.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** Dispose of waste as indicated below or according to Australian Standard 2507- Storage and Handling of Pesticides.  
*Dangerous to fish: do not allow spilled product or wash solution to enter sewer, drains, dams, creeks or any other waterways.*  
Container disposal: single containers may be wrapped in paper, placed in a plastic bag and then put in the garbage. Otherwise 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.

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

**Regulatory Information** APVMA Number: 62520

**Poisons Schedule** S5



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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS**      MSDS Created: October 2007

**Contact Person/Point**      Scotts Australia Pty Ltd  
11 Columbia Way  
Baulkham Hills NSW 2153  
Phone (02) 8853 7300  
Fax (02) 8853 7310  
Emergency phone 1800 033 111  
...End Of MSDS...

New Zealand:  
180c Great South Rd  
Takanini, Auckland  
Phone (09) 299 6558  
Fax (09) 296 0186  
Emergency phone 0800 734 607