



# Material Safety Data Sheet

MSDS No.	1035	Issue Date : October 2007	ISSUED by SCOTTS AU
Product Name :	DEFENDER BUG-B-GON INSECT SPRAY		

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	DEFENDER BUG-B-GON INSECT SPRAY FOR INDOOR & OUTDOOR PLANTS
Product Code	190555
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	Ready to use insecticide

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not classified as Hazardous according to criteria of Australian Safety & Compensation Council (ASCC, formerly NOHSC), Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.  HSNO classification: 9.1A ecotoxic in the aquatic environment 9.4C ecotoxic to terrestrial invertebrates. Hazard statement code: H400- Very toxic to aquatic life. H443- Harmful to terrestrial invertebrates Precautionary statement codes- prevention: P103- Read label before use. P273- Avoid release to the environment Precautionary statement codes- Response: P391- Collect spillage.
------------------------------	---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Ingredients
	bifenthrin	82657-04-3	0.003 %	
	water	7732-18-5	>90 %	
	Surfactants, stickers, solvents, bacteriostats determined not to be hazardous	not disclosed	<2 %	

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove to fresh air. If breathing discomfort occurs, contact a medical doctor.
<b>Ingestion</b>	If poisoning occurs, contact a doctor or Poisons Information Centre [phone 131126]. Do not induce vomiting.
<b>Skin</b>	If on skin or clothing, wash skin thoroughly with soap and water. See a doctor if irritation develops and persists.
<b>Eye</b>	Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Soft stream water fog, foam and CO <sub>2</sub> or dry chemical.
-------------------------------------	--



# Material Safety Data Sheet

MSDS No.	1035	Issue Date : October 2007	ISSUED by SCOTTS AU
----------	------	---------------------------	---------------------

Product Name : DEFENDER BUG-B-GON INSECT SPRAY

**Hazards from Combustion Products** Avoid excess heat and fire. Thermal decomposition and burning of the containers may produce toxic by-products.  
**Special Protective Equipment for fire fighters** In case of fire wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** In the case of spillage contain and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides.  
*Dangerous to fish: Do not allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.*  
Container Disposal: Empty container should be wrapped in paper and placed in a garbage bin.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** When using, do not eat, drink or smoke. Avoid skin contact. Wash hands after use.  
**Conditions for Safe Storage** Store in original container. Keep in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** None allocated.  
**Biological Limit Values** None allocated  
**Engineering Controls** Ensure adequate ventilation.  
**Personal Protection** Personal protective equipment is not normally required - gloves can be worn for personal hygiene. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Liquid  
**Odour** Not available  
**Melting Point** Not available  
**Boiling Point** Not available  
**Solubility in Water** Product mixes in water. Bifenthrin insoluble (<0.1ppb)  
**pH Value** Not available  
**Vapour Pressure** Not available  
**Vapour Density (Air=1)** Not available  
**Specific gravity** Approx 1.0  
**Decomposition temperature** Not available  
**Flashpoint** Not flammable  
**Flammable Limits** Not flammable

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions of storage.  
**Conditions to Avoid** Extreme heat.  
**Materials to avoid** No information available  
**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** The product is toxic by inhalation.



# Material Safety Data Sheet

MSDS No.	1035	Issue Date : October 2007	ISSUED by SCOTSAU
----------	------	---------------------------	-------------------

Product Name : DEFENDER BUG-B-GON INSECT SPRAY

**Ingestion** The product is harmful if swallowed.  
**Skin** The product is practically non-toxic, non-sensitising and non-irritating.  
**Eye** Will irritate the eyes.

---

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Bifenthrin is toxic to aquatic organisms.  
**Persistence / Degradability** No information available.  
**Environ. Protection** Do not allow chemical or empty container to enter drains, sewers, streams, ponds or other waterways.

---

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** Use product completely. Empty container should be wrapped in paper and placed in a garbage bin.

---

## 14. TRANSPORT INFORMATION

**Transport Information** Not classified as dangerous goods in Australia for transport by road and rail according to the Australian Dangerous Goods Code.  
Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

---

## 15. REGULATORY INFORMATION

**Regulatory Information** APVMA approval no. 53736.  
HSNO approval No. HSR000086  
Does not require ACVM approval.  
**Poisons Schedule** Not a scheduled poison.

---

## 16. OTHER INFORMATION

**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
---	---