



Infosafe No™ LPZIR                      Issue Date : November 2010                      ISSUED by SCOTSAU

Product Name **DEFENDER HOME DEFENSE INDOOR + OUTDOOR SURFACE SPRAY  
PROFESSIONAL GRADE FORMULA**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** DEFENDER HOME DEFENSE INDOOR + OUTDOOR SURFACE SPRAY PROFESSIONAL GRADE FORMULA

**Company Name** SCOTTS AUSTRALIA PTY LTD

**Address** Building E, Level 2  
32 Lexington Drive Bella Vista  
NSW 2153 Australia

**Emergency Tel.** 1800 033 111

**Telephone/Fax Number** Tel: (02) 8602 9000  
Fax: (02) 9602 9001

**Recommended Use** Insecticide

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S23(2) Do not breathe vapour.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	1,3,5-Tris(hydroxyethyl)-1,3,5-hexahydrotriazine	4719-04-4	<1 %	Xn, Xi	R22, R36/38, R43
	Propane-1,2-diol	57-55-6	0-<0.1 %		
	Bifenthrin	82657-04-3	0-<0.1 %		
	Other ingredients determined not to be hazardous		To 100%		

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

**Ingestion** Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

**Skin** Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.

**First Aid Facilities** Eye wash and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products** Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide and oxides nitrogen

**Specific Hazards** This product is non-combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.

**Precautions in connection with Fire** Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed



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containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures**                      Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**                      Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for Safe Storage**                      Store in a cool, dry, well-ventilated area, out of direct sunlight and away from oxidizing materials. Store in suitable labelled containers. Keep containers closed when not in use. Keep away from food, drinks and animal feedstuffs. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards**                      No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Propane-1-2-diol	150	474	-	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

**Biological Limit Values**                      No biological limit allocated.

**Engineering Controls**                      Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

**Respiratory Protection**                      If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**                      Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**                      Wear PVC gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1:

**Body Protection**                      Occupational protective gloves - Selection, use and maintenance. Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities



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are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Opaque water thin liquid that separates on standing.
<b>Odour</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Partly soluble
<b>Specific Gravity</b>	1.00 at 25°C
<b>pH Value</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Flash Point</b>	Not flammable
<b>Flammability</b>	Non-combustible liquid
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not flammable
<b>Flammable Limits - Upper</b>	Not flammable

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Strong oxidising agents
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide and oxides nitrogen
<b>Hazardous Polymerization</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicology Information</b>	No toxicity data available for this material. The available acute toxicity data for the ingredients are as follows: Acute toxicity data for 1,3,5-Tris(hydroxyethyl)-1,3,5-hexahydrotriazine: LD50 (Oral, Rat): 763 mg/kg Acute toxicity data for Propane-1,2-diol: LD50 (Oral, Rat): 20 gm/kg Acute toxicity data for Bifenthrin: LD50 (Oral, Rat): 54500 ug/kg
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Skin</b>	May be irritating to skin. The symptoms may include redness, itching and swelling.
<b>Eye</b>	May be irritating to eyes. The symptoms may include redness, itching and tearing.
<b>Chronic Effects</b>	Not available

**12. ECOLOGICAL INFORMATION**



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**Ecotoxicity** Not available  
**Persistence / Degradability** Not available  
**Mobility** Not available  
**Environ. Protection** Do not allow product to enter drains, waterways or sewers.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

### 14. TRANSPORT INFORMATION

**Transport Information** Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

### 15. REGULATORY INFORMATION

**Regulatory Information** Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).  
**Poisons Schedule** Not Scheduled

### 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Created: October 2010

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