

ACN 050 328 973

Product Name: Bumper 250 EC Fungicide

Page: 1 of 5

This revision issued: June, 2005

# **Section 1 - Identification of Chemical Product and Company**

Farmoz Pty Ltd, Suite 1, Level 4, Building B 207 Pacific Highway St Leonards, NSW 2068

Telephone (02)9431 7800 (24 hours)

Fax (02)9431 7700

**Substance:** Propiconazole is an azole derived fungicide.

Trade Name: Bumper 250 EC Fungicide

**Product Use:** Agricultural fungicide for use as described on the product label.

Creation Date: June, 2005 Revision Date: June, 2005

## **Section 2 - Hazards Identification**

### **Statement of Hazardous Nature**

This product is classified as: Not classified as hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** Not Hazardous - No criteria found. **Safety Phrases:** Not Hazardous - No criteria found.

**SUSDP Classification:** S6

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated

### **Emergency Overview**

Physical Description & colour: Clear, amber coloured liquid.

**Odour:** Characteristic odour.

Major Health Hazards: no significant risk factors have been found for this product.

#### **Potential Health Effects**

### Inhalation

**Short term exposure:** Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term exposure: No data for health effects associated with long term inhalation.

### Skin Contact:

**Short term exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

**Long Term exposure:** No data for health effects associated with long term skin exposure.

### **Eve Contact:**

**Short term exposure:** Exposure via eyes is considered to be unlikely. This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term eye exposure.

### Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. However, this product may be

irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term exposure: No data for health effects associated with long term ingestion.

### Carcinogen Status:

**NOHSC:** No significant ingredient is classified as carcinogenic by NOHSC. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

## **Section 3 - Composition/Information on Ingredients**

Ingredients	CAS No	Conc,%	TWA (mg/m³)	STEL (mg/m³)
Propiconazole	60207-90-1	25	not set	not set
Ethoxylated castor oil	61791-12-6	10-20	not set	not set

#### MATERIAL SAFETY DATA SHEET

Issued by: Farmoz Pty Ltd Phone: (02)9431 7800

Product Name: Bumper 250 EC Fungicide Page: 2 of 5

This revision issued: June, 2005

Other non hazardous ingredients secret to 100 not set not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### **Section 4 - First Aid Measures**

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Gently blot away excess liquid. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

**Eye Contact:** No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

**Ingestion:** If product is swallowed or gets in mouth, wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

# **Section 5 - Fire Fighting Measures**

**Fire and Explosion Hazards**: This product is classified as flammable. There is a slight risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: >64°C
Upper Flammability Limit: No data.
Lower Flammability Limit: No data.
Autoignition temperature: No data.
Flammability Class: Flammable

### Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## **Section 7 - Handling and Storage**

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to

Product Name: Bumper 250 EC Fungicide Page: 3 of 5

This revision issued: June, 2005

persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

## **Section 8 - Exposure Controls and Personal Protection**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by NOHSC for any of the significant ingredients in this product.

The ADI for Propiconazole is set at 0.04mg/kg/day. The corresponding NOEL is set at 4mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2004.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

## **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Clear, amber coloured liquid.

**Odour:** Characteristic odour.

**Boiling Point:** Not available.

**Freezing/Melting Point:** No specific data. Liquid at normal temperatures. **Volatiles:** No specific data. Expected to be low at 100°C.

No data.

**Vapour Pressure:** No data. Expected to be low at 20°C

Vapour Density: No data.

Specific Gravity:
Water Solubility:
pH:
Volatility:
No data.
Volatility:
No data.
Volata.
Volata.
Volata.
Coeff Oil/water distribution:

Approx 1.0 at 20°C
Emulsifiable.
No data.
No data.
No data.

## Section 10 - Stability and Reactivity

**Autoignition temp:** 

**Reactivity**: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. **Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Issued by: Farmoz Pty Ltd Phone: (02)9431 7800

Product Name: Bumper 250 EC Fungicide

Page: 4 of 5 This revision issued: June, 2005

**Polymerisation:** This product will not undergo polymerisation reactions.

## **Section 11 - Toxicological Information**

**Toxicity:** For Propiconazole:

 $LD_{50}$  Oral (Rat) 1517mg/kg  $LD_{50}$  Oral (Mouse) 1419mg/kg  $LD_{50}$  Dermal (Rat) >4000mg/kg  $LD_{50}$  Dermal (Rabbit) >6000mg/kg

LC<sub>50</sub> Inhal (Rat, 4hr) >5800mg/m3

## **Section 12 - Ecological Information**

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

For Propiconazole:

Birds: LD<sub>50</sub> Japanese quail: 2223mg/kg LD<sub>50</sub> Bobwhite quail: >2825mg/kg

LD<sub>50</sub> mallard ducks: >2510mg/kg

Fish: LC<sub>50</sub> carp: 6.8mg/L LC<sub>50</sub> rainbow trout: 5.3mg/L

 $LC_{50}$  golden orfe: 5.1mg/L Algae:  $EC_{50}$  0.02-13.6mg/L Bees: not toxic to bees Daphnia:  $EC_{50}$  4.8mg/L

After oral administration to the rat, Propiconazole is rapidly absorbed and also rapidly and almost completely eliminated with urine and faeces. Residues in tissues were generally low and there was no evidence for accumulation or retention of Propiconazole or its metabolites. The major sites of enzymatic attack are the propyl side-chain and the cleavage of the dioxolane ring, together with some attack at the 2,4-dichlorophenyl and 1,2,4-triazole rings. In the mouse, the major metabolic pathway is via cleavage of the dioxolane ring.

Plants: Degradation proceeds through hydroxylation of the n-propyl side-chain and deketalisation of the dioloxane ring. After cleavage of triazole, triazole-alanine is formed as the main metabolite. Metabolites are conjugated mostly as glucosides

The main degradation pathways are hydroxylation of the propyl side-chain and the dioxolane ring, and finally formation of the 1,2,4-triazole. Koc (ads) 950ml/g, immobile in soil.

## **Section 13 - Disposal Considerations**

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

## **Section 14 - Transport Information**

**ADG Code:** This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

# **Section 15 - Regulatory Information**

**AICS:** All of the significant ingredients in this formulation are to be found in the public AICS Database. The following ingredients: Propiconazole, are mentioned in the SUSDP.

### **Section 16 - Other Information**

This MSDS contains only safety-related information. For other data see product literature.

**Acronyms:** 

**IARC** 

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances
CAS number Chemical Abstracts Service Registry Number

Hazchem Code Emergency action code of numbers and letters that provide information to

emergency services especially firefighters International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

**UN Number** United Nations Number

**Contact Points:** 

Call Farmoz on (02)9431 7800 and ask for the technical manager. Fax: (02)9431 7700

**MATERIAL SAFETY DATA SHEET** 

Issued by: Farmoz Pty Ltd Phone: (02)9431 7800

Product Name: Bumper 250 EC Fungicide

Page: 5 of 5

This revision issued: June, 2005

Phone: (02)9431 7800

Police and Fire Brigade: Dial 000

Emergency contact: 1800 024 973 (24 hours)

If ineffective: Dial Poisons Information Centre (13 1126 from anywhere in Australia)

The information contained in this Material Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Farmoz Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this Material Safety Data Sheet.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

Copyright © Kilford & Kilford Pty Ltd, June, 2005.

http://www.kilford.com.au/ Phone (02)9251 4532