

BUMPER 25 EC

R-8045.DPD(ECNA)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : BUMPER 25 EC
Chemical formula : Propiconazole : C₁₅H₁₇Cl₂N₃O₂
Chemical description : Propiconazole : 1-[(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl] -1H-1,2,4-triazole (CA)
Use : Fungicide
Company identification : Makhteshim Agan SA (Pty) Ltd
 21 Viben Street
 PO Box 498
 Brackenfell 7561
 Tel: +27-21-9821460
 Fax: +27-21-9825810
Emergency phone nr : +27-21-9821460

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Propiconazole	: 250 g/l	60207-90-1	262-104-4	613-205-00-0	Xn; R22 R43 N; R50-53
CaABS/n-Butanol	: 3.5 %	----	----	----	R10 R67 Xi; R38-41

3. HAZARDS IDENTIFICATION

Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Effects and symptoms
Eye contact : Redness , tears .
First aid
Inhalation : Remove victim to fresh air. Consult a doctor in the event of any complaints.
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Consult a doctor.
Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Consult a doctor in the event of any complaints.
Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. If pain persists, consult an eye specialist.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Foam , water fog , water spray .
Special procedures : Fight fires from a protected location . Dike fire control water for later disposal.
Special exposure hazards : Thermal decomposition may generate : carbon dioxide , carbon monoxide , chlorides , nitrogen oxides .
Protection against fire : Wear proper protective equipment. Self-contained breathing apparatus.

BUMPER 25 EC

R-8045.DPD(ECNA)

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use appropriate protection (see section 8).
- Environmental precautions** : Dispose of this material and its container at hazardous or special waste collection point, In accordance with national and regional regulations . If the product has contaminated surface water, inform the appropriate authorities.
Contaminated soil layers have to be dug out.
- After spillage and/or leakage** : In the event of minor spillage: Absorb in sand or other inert material . Use appropriate containment to avoid environmental contamination.
In the event of major spillage: Collect and contain as much free liquid as possible.
Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. HANDLING AND STORAGE

- Handling** : Do not breathe fumes . Avoid contact with skin and eyes.
- Storage** : Keep locked up Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. (<50 °C).
- Packing** : Coextruded polyethylene bottles .
Drums with polyethylene liner.
Resin-lined metal drums .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Wash hands thoroughly after handling. Wash clothing before re-using.
- Occupational Exposure Limits**
- TLV** : Propiconazole : Not established
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
- **Skin protection** : Wear suitable protective clothing and chemical resistant boots .
- **Hand protection** : Wear suitable gloves.
- **Eye protection** : Chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Clear - Tan
- Odour** : characteristic
- Molecular weight** : Propiconazole : 342.2
- Initial boiling point [°C]** : Propiconazole : Decomposes at elevated temperatures (>300 °C)
- Density** : 0.98-1.00 g/ml
- Vapour pressure** : Propiconazole : 2.1 x (10)⁻⁴ Pa (20°C - Pure)
- Solubility in water** : Emulsifiable
Propiconazole : 150 mg/l (20°C - Pure)
- Flash point [°C]** : 107 (Closed cup)
- Auto-ignition temperature [°C]** : 265
- Explosion limits** : Not explosive
- Log P octanol** : Propiconazole : 3.51

BUMPER 25 EC

R-8045.DPD(ECNA)

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable under normal conditions.
Hazardous decomposition products : Thermal decomposition may generate : carbon dioxide , carbon monoxide , chlorides , nitrogen oxides .
Hazardous reactions : Avoid contact with : strong acids , strong bases .
Hazardous Polymerization : Will not occur.
Conditions to avoid : Protect from (sun)light , open flame , sources of heat . Decomposes upon heating.

11. TOXICOLOGICAL INFORMATION

- Rat oral LD50 [mg/kg]** : > 2000
Rat dermal LD50 [mg/kg] : > 2000
Rat inhalation LC50 [mg/l/4h] : 9.46
Dermal irritation (rabbit) : Not irritating
Eyes irritation (rabbit) : Not irritating
Sensitization : Guinea pig maximization test: Non sensitizer
Carcinogenicity : Propiconazole : Not carcinogenic
Mutagenicity : Propiconazole : Not mutagenic
Reproductive toxicity : Propiconazole : Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

- 96 Hour-LC50 - fish [mg/l]** : 3.72
48 H-EC50 - Daphnia magna [mg/l] : 26
72 H-EC50 Algae [mg/l] : 2.53
LD50 Birds [mg/kg] : Propiconazole : > 2000
Bees LD50 [µg/Bee] : Bumper Tech.: Not toxic to bees : >100
Persistence and degradability : Propiconazole: Rapidly degrades when exposed to sunlight and UV light .
Mobility : Propiconazole: Product does not leach to ground water.
Bioaccumulative potential : Bumper Tech.: BCF = 35 (fish)

13. DISPOSAL CONSIDERATIONS

- Disposal** : Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

- **UN No.** : 3082
- **Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (250 g/l Propiconazole)
- **Packing group** : III
- **Class** : 9
- **H.I. nr** : 90
- **IMDG-Marine pollution** : No

15. REGULATORY INFORMATION

- EU Classification** : This product is provisionally labelled by the supplier in accordance to the EU regulations;

BUMPER 25 EC

R-8045.DPD(ECNA)

15. REGULATORY INFORMATION (continued)

Symbol(s)



R Phrase(s)

: N: Dangerous for the environment.
: R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

: S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S46 - If swallowed seek medical advice immediately and show this container or label.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Text of R-phrases in heading 2

: R10 - Flammable.
R22 - Harmful if swallowed.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 - Vapours may cause drowsiness and dizziness.

Further information

: None.

Print date

: 27/11/2005

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document