

# MATERIAL SAFETY DATA SHEET

## BUMPER P

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

**Product name** : BUMPER P

**Chemical name of active ingredient(s)** : Propiconazole:  
1-[(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl]-1H-1,2,4-triazole (CA).  
Prochloraz: 1-N-propyl-N-[2-(2,4,6-trichlorophenoxy) ethyl]-1H-imidazole-1-carboxamide (CA).

**Chemical formula** : Propiconazole: C<sub>15</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>.  
Prochloraz: C<sub>15</sub>H<sub>16</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>2</sub>.

**Code no.** : R-8361.DPD

**Supplier** : Makhteshim Agan (UK) Limited  
Unit 16, Thatcham Business Village Colthrop Way  
Thatcham  
Berkshire RG19 4LW  
Tel No: 01635 860555 Fax No: 01635 861555

**Emergency telephone number** : National Chemical Emergency Centre  
Tel: 01865 407333.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation.

#### Information on hazardous ingredients \*

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Propiconazole	60207-90-1	90 g/l	262-104-4	-	-
Prochloraz	67747-09-5	400 g/l	266-994-5	Xn, N	R22-50/53
Butyrolactone	96-48-0	Approx. 8%	-	Xn	R22-36
n-Butanol	71-36-3	Approx. 4%	200-751-6	Xn	R10-22-37/38-41-67

\* *Occupational Exposure Limit(s), if available, are listed in section 8*

### 3. HAZARDS IDENTIFICATION

**Human health hazards** : Irritating to eyes.

**Environmental hazards** : 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 measures

**Inhalation** : Remove victim to fresh air. Consult a doctor in the event of any complaints.

**Ingestion** : Induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth. Consult a doctor.

**Skin contact** : Remove contaminated clothing. Wash off with plenty of water and soap. Consult a doctor in the event of any complaints.

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- Eye contact** : Wash off with plenty of water for at least 15 minutes. If pain persists, consult an eye specialist.
- Notes to a physician** : There is no specific antidote. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable** : Water spray, fog or regular foam.
- Special fire-fighting procedures** : Fight fires from a protected location. Dike fire control water for later disposal.
- Hazardous thermal (de)composition products** : Nitrogen oxides and Chlorides.
- Protection of fire-fighters** : Wear suitable protective clothing.  
Self-contained breathing apparatus.

### 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 the event of a spill, inform the appropriate authorities. Contaminated soil layers have to be dug out.
- Methods for cleaning up** : In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containers. 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 place (<50°C).
- Packaging materials**
- Suitable** : Multi-layer high density polyethylene extrusion blow containers. Metal drums coated with e

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Facilities storing or utilizing this material should be equipped with an eyewash facility and
- Hygiene measures** : Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **Propiconazole**
- TLV (USA)** : Not established.
- Common name** : **Prochloraz**
- TLV (USA)** : Not established.
- Personal protective equipment**
- Respiratory system** : During spraying wear suitable respiratory equipment.
- Skin and body** : Wear suitable protective clothing and chemical resistant boots.
- Hands** : Wear suitable gloves.
- Eyes** : Safety goggles or face shield.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid.

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<b>Colour</b>	: Clear - Light yellow.
<b>Odour</b>	: Odourless.
<b>Molecular weight</b>	: Propiconazole: 342.2. Prochloraz: 376.7.
<b>Boiling point</b>	: Propiconazole: Decomposition at temperatures above 300°C. Prochloraz: Decomposition at temperatures above 150°C.
<b>Melting point</b>	: Prochloraz: 48-51°C.
<b>Vapour pressure</b>	: Propiconazole: 2.01X10 <sup>-4</sup> Pas. at a temperature of 20°C - Pure. Prochloraz: 4.6X10 <sup>-6</sup> Pas. at a temperature of 25°C - Pure.
<b>Specific gravity (H<sub>2</sub>O=1)</b>	: 1.15.
<b>Solubility in water</b>	: Propiconazole: 150 mg/l at a temperature of 20°C. Prochloraz: 26.1 mg/l.
<b>Octanol/water partition coefficient</b>	: Propiconazole: 3.51. Prochloraz: 4.06.
<b>Flash point</b>	: 76°C (Closed cup).
<b>Explosion properties</b>	: Not explosive.

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under normal conditions.
<b>Conditions to avoid</b>	: Protect from (sun)light, open flame and sources of heat. Decomposes upon heating.
<b>Materials to avoid</b>	: Avoid contact with: strong acids and strong bases.
<b>Hazardous reactions</b>	: Hazardous polymerization will not occur.
<b>Hazardous decomposition products</b>	: HCN, CO, CO <sub>2</sub> and Chlorides.

### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity - Oral</b>	: LD <sub>50</sub> > 2000 mg/kg (rat).
<b>Acute toxicity - Dermal</b>	: LD <sub>50</sub> > 2000 mg/kg (rat).
<b>Acute toxicity - Inhalation</b>	: LC <sub>50</sub> > 7.92 mg/l, 4h (rat).
<b>Skin irritation</b>	: Not irritating (rabbit).
<b>Eye irritation</b>	: Irritating to eyes (rabbit).
<b>Sensitization</b>	: Guinea pig maximization test: Non sensitizer.
<b>Carcinogenicity</b>	: Propiconazole, Prochloraz: Not carcinogenic (rat).
<b>Mutagenicity</b>	: Propiconazole, Prochloraz: Not mutagenic.
<b>Reproduction toxicity</b>	: Propiconazole, Prochloraz: Not teratogenic in animal experiments.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	: <b>Bumper P:</b> <u>Fish</u> : LC <sub>50</sub> = 4.2 mg/l, 96 hours (rainbow trout). <u>Daphnia</u> : EC <sub>50</sub> = 11.0 mg/l, 48 hours. <u>Algae</u> : EC <sub>50</sub> = 5.4 mg/l, 72 hours.
<b>Common name</b>	: <b>Propiconazole</b>
<b>Mobility</b>	: Propiconazole does not leach to ground water.
<b>Persistence/degradability</b>	: Rapidly degrades when exposed to sunlight and UV light.
<b>Bioaccumulative potential</b>	: BCF < 100.
<b>Ecotoxicity</b>	: Birds: LD <sub>50</sub> > 2000 mg/kg. Not toxic to bees.
<b>Common name</b>	: <b>Prochloraz</b>
<b>Mobility</b>	: Prochloraz does not leach to ground water.

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**Persistence/degradability** : Rapidly degrades when exposed to sunlight and UV light.  
**Ecotoxicity** : Birds: LD<sub>50</sub> > 2000 mg/kg.  
 Not toxic to bees.  
 Fish: LC<sub>50</sub> = 1.43 mg/l, 96 hours (rainbow trout).  
 Daphnia: EC<sub>50</sub> = 0.85 mg/l, 48 hours.  
 Algae: ErC<sub>50</sub> = 1.19 mg/l; EbC<sub>50</sub> = 0.28 mg/l, 72 hours.

### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : Disposal according to the local legislation.

### 14. TRANSPORT INFORMATION

#### International transport regulations

**UN number** : 3082.

#### Land - Road/Railway

**Proper shipping name** : Environmentally hazardous substance, Liquid, N.O.S., Prochloraz.  
**ADR/RID Class** : 9.  
**ADR/RID Item number** : 9,11<sup>o</sup>(c).  
**Packing group** : III  
**Hazard Identification Number** 90

#### Inland waterways

**Proper shipping name** : Environmentally hazardous substance, Liquid, N.O.S., Prochloraz.

#### Sea

**Proper shipping name** : Environmentally hazardous substance, Liquid, N.O.S., Prochloraz.  
**IMDG Class** : 9  
**IMDG Page number** : 9028  
**Packing group** : III

#### Air

**Proper shipping name** : Environmentally hazardous substance, Liquid, N.O.S., Prochloraz.  
**UN/ID Number** : 3082.

#### National transport regulations

No additional national transport regulations are known to the supplier

### 15. REGULATORY INFORMATION

**Classification** : This product is provisionally labelled by the supplier in accordance with the suppliers unde

**Hazard symbol(s)** : Xi, N



IRRITANT (Xi)



DANGEROUS FOR THE ENVIRONMENT (N)

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**Risk phrases** : R36: Irritating to eyes.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic e

**Safety phrases** : 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.  
S25: Avoid contact with eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical  
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.

**Contains** : 90 g/l Propiconazole, 400 g/l Prochloraz.

**16. OTHER INFORMATION**

**Recommended use** : Fungicide.

**Text of R-phrases in section 2**

R10: Flammable  
R22: Harmful if swallowed  
R36: Irritating to eyes  
R37: Irritating to respiratory system  
R38: Irritating to skin  
R41: Risk of serious damage to eyes  
R50: Very toxic to aquatic organisms  
R53: May cause long-term adverse effects in the aquatic environment  
R67: Vapours may cause drowsiness and dizziness

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be

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