

This Safety Data Sheet does not form part of the approved label. Following the instructions on the pesticide Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

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R-8045.DPD(ECNA) MCW 309 25 EC

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Bumper 250 EC

Synonyms

Propiconazole 250 EC

Pure substance/mixture

Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Fungicide

Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

Supplier address

Adama Agricultural Solutions UK Ltd
Unit 15, Thatcham Business Village, Colthrop Way
Thatcham, Berkshire RG19 4LW
Tel: 01635 860555
Fax: 01635 861555

For further information, please contact

Email address

ukenquiries@adama.com

1.4. Emergency telephone number

Emergency telephone

National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute aquatic toxicity Category 1 - (H400)

Hazardous to the aquatic environment - Chronic Hazard Category 1 - (H410)

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see Section 16.

N;R50/53

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word

Warning

Hazard statements

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children

P501 - Dispose of contents/container to an approved waste disposal plant

EU specific hazard statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

EUH208 - Contains propiconazole. May produce an allergic reaction

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture**

| Chemical name | Weight % | CAS No. | EC No. | Index No. | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Classification according to 67/548/EEC | M-Factor | REACH Registration Number |
|--|----------|------------|-----------|--------------|--|--|----------|---------------------------|
| Propiconazole | 24-27 | 60207-90-1 | 262-104-4 | 613-205-00-0 | Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | Xn; R22 R43 N; R50-53 | | - |
| butan-1-ol | 1.5-3 | 71-36-3 | 200-751-6 | 603-004-00-6 | Flam Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336) | R10 Xn; R22 Xi; R37/38-41 R67 | | - |
| Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt | 1-2 | N/A | - | - | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) | Xi; R41, R38 | | 01-21195605 92-37 |

Full text of R-phrases: see Section 16.

Full text of H- and EUH-phrases: see Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

None known

4.3. Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other information

See also Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fumes/gas/mist/vapours/spray.

General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Chemical Name | Chemical Name | Chemical Name |
|--|--|--|
| butan-1-ol 71-36-3 | butan-1-ol 71-36-3 | butan-1-ol 71-36-3 |
| European Union | Italy | Austria |
| | | STEL 200 ppm STEL 600 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³ |
| United Kingdom | Portugal | Switzerland |
| STEL: 50 ppm STEL: 154 mg/m ³ Skin | TWA: 20 ppm | STEL: 50 ppm STEL: 150 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³ |
| France | Netherlands | Poland |
| STEL: 50 ppm STEL: 150 mg/m ³ | | STEL: 150 mg/m ³ TWA: 50 mg/m ³ Skin |
| Spain | Finland | Norway |
| S* STEL: 50 ppm STEL: 154 mg/m ³ | TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 230 mg/m ³ Skin | Skin Ceiling: 25 ppm Ceiling: 75 mg/m ³ |
| Germany | Denmark | Ireland |
| TWA: 100 ppm TWA: 310 mg/m ³ Ceiling/Peak: 100 ppm Ceiling/Peak: 310 mg/m ³ | Ceiling: 50 ppm Ceiling: 150 mg/m ³ Skin | TWA: 20 ppm STEL: 25 ppm STEL: 75 mg/m ³ Skin |

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Body protection

Suitable protective clothing.

General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Property | Values | Method | Remarks |
|---|---------------------|---------------|-------------------------------------|
| Appearance | | | |
| Physical state | : Clear liquid | | |
| Colour | : Yellow-orange | | |
| Odour | : Strong unpleasant | | |
| Odour threshold | : No data available | | |
| pH | : 6-7 | CIPAC MT 75 | Solution (1%) |
| Melting point/freezing point °C | : No data available | | |
| Boiling point/boiling range °C | : No data available | | |
| Flash point °C | : 107 | 92/69/EEC A.9 | |
| Evaporation rate | : Not applicable | | |
| Flammability (solid, gas) | : Not applicable | | |
| Upper/lower flammability or explosive limits | : No data available | | |
| Vapour pressure kPa | : No data available | | |
| Vapour density | : No data available | | |
| Relative density | : 0.994 - 0.998 | EEC A.3 | |
| Solubility(ies) mg/l | : No data available | | |
| Partition coefficient (n-octanol/water) Log Pow | : | | See Section 12 for more information |
| Autoignition temperature °C | : 265 | EEC A.15 | |
| Decomposition temperature °C | : No data available | | |
| Kinematic viscosity mm ² /s 40°C | : 13.53 | CIPAC MT 114 | |
| Explosive properties | : Not an explosive | | |
| Oxidising properties | : No data available | | |
| 9.2. Other information | : | | |
| Bulk density g/ml | : | | |
| Surface tension mN/m | : Not applicable | | |
| Minimum ignition energy (MIE) mJ | : | | |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

| | Values | Species | Method | Remarks |
|-----------------------------------|------------------------------|------------|----------|---------|
| Oral LD50 mg/kg | : >2010 | Rat | OECD 401 | |
| Dermal LD50 mg/kg | : >2010 | Rat | OECD 402 | |
| Inhalation LC50 mg/l/4h | : >9.46 | Rat | OECD 403 | |
| Skin corrosion/irritation | : Non-irritating to the skin | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | : Not irritating to eyes | Rabbit | OECD 405 | |
| Respiratory/skin sensitisation | : Not a skin sensitiser | Guinea pig | OECD 406 | |

Chronic toxicity

Germ cell mutagenicity

Chemical name

Propiconazole : Not classified

Carcinogenicity

Chemical name

Propiconazole : Not classified

Reproductive toxicity

Chemical name

Propiconazole : Not classified

STOT - single exposure

Chemical name

Propiconazole : No data available

STOT - repeated exposure

Chemical name

Propiconazole : No data available

Aspiration hazard

Chemical name

Propiconazole : No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. toxicity

Acute toxicity

| Aquatic toxicity | Values | Species | Method | Remarks |
|-----------------------------|--------|-------------------------|----------|---------|
| Fish 96-hour LC50 mg/l | : 8.02 | Rainbow trout | OECD 203 | |
| Crustacea 48-hour EC50 mg/l | : 26 | Daphnia magna | OECD 202 | |
| Algae 72-hour EC50 mg/l | : 0.88 | Scenedesmus subspicatus | OECD 201 | |

Other plants EC50 mg/l

: No data available

Terrestrial toxicity

Birds oral LD50 mg/kg

Chemical name

Propiconazole : >2510

Mallard duck,
Bobwhite quail

Bees Oral LD50 µg/bee

Chemical name

Propiconazole : >100

12.2. Persistence and degradability

Abiotic degradation

Water DT50 days

Chemical name

Propiconazole

Values

: 5.4

Method

Remarks

Soil DT50 days

Chemical name

Propiconazole

: 29-70

Biodegradation

Chemical name

Propiconazole

: Not readily biodegradable

12.3. Bioaccumulative potential

Partition coefficient

(n-octanol/water) Log Pow

Chemical name

Propiconazole

Values

: 3.72

Method

Remarks

25°C

Bioconcentration factor (BCF)

Chemical name

Propiconazole

: 116

12.4. Mobility in soil

Adsorption/desorption

Chemical name

Propiconazole

Values

: 382-1789

Method

Remarks

Koc

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No.

14.2 Proper shipping name

3082
ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Propiconazole)
9
III
Yes

14.3 Hazard class

14.4 Packing group

14.5 Marine pollutant

14.6 Special precautions for user

RID/ADR

14.1 UN/ID No.

14.2 Proper shipping name

3082
ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Propiconazole)
9
III
Yes

14.3 Hazard class

14.4 Packing group

14.5 Environmental hazard

14.6 Special precautions for user

ICAO/IATA

14.1 UN/ID No.

14.2 Proper shipping name

3082
ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Propiconazole)
9
III
Yes

14.3 Hazard class

14.4 Packing group

14.5 Environmental hazard

14.6 Special precautions for user

14.7 Transport in bulk according

to Annex II of MARPOL 73/78

and the IBC Code

Not applicable



SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under Sections 2 and 3

R10 - Flammable
R22 - Harmful if swallowed
R38 - Irritating to skin
R41 - Risk of serious damage to eyes
R43 - May cause sensitisation by skin contact
R67 - Vapours may cause drowsiness and dizziness
R37/38 - Irritating to respiratory system and skin
R50/53 - Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Full text of H-Statements referred to under Sections 2 and 3

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet