

BANNER MAXX

Version 7 - This version replaces all previous versions.

Revision Date 25.11.2013

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Product name** : BANNER MAXX**Design code** : A6780D**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use** : Fungicide**1.3 Details of the supplier of the safety data sheet****Company** Syngenta UK Limited
CPC4, Capital Park
Fulbourn, Cambridge
CB21 5XE**Telephone** : (01223) 883400**Telefax** : (01223) 882195**Website** : www.greencast.co.uk**1.4 Emergency telephone number**

: +44 (0) 1484 538444

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Skin Sensitisation	Sub-category 1B	H317
Reproductive toxicity	Sub-category 1B	H360Df
Chronic aquatic toxicity	Category 2	H411

Classification according to EU Directives 67/548/EEC or 1999/45/EC

T, Toxic

N, Dangerous for the environment

R43: May cause sensitisation by skin contact.

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

R61: May cause harm to the unborn child.

R62: Possible risk of impaired fertility.


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2.2 Label elements


Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
		
Signal Word	:Danger	
Hazard Statements	:H317 :H360Df :H411	May cause an allergic skin reaction. May damage the unborn child. Suspected of damaging fertility. Toxic to aquatic life with long lasting effects.
Precautions Statements	:P102 :P201 :P280 :P308/P313 :P391 :P501	Keep out of reach of children Obtain special instructions before use. Wear protective gloves/protective clothing. IF exposed or concerned: Get medical advice/attention. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- Propiconazole
- Tetrahydrofurfuryl alcohol

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)		
		
Toxic	Dangerous for the environment	
R-phrases(s)	R43 R51/53 R61 R62	May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause harm to the unborn child. Possible risk of impaired fertility.
S-phrases(s)	S2 S13 S20/21 S35 S36/37 S57	Keep out of the reach of children Keep away from food, drink and animal feedingstuffs When using do not eat, drink or smoke This material and its container must be disposed or in a safe way Wear suitable protective clothing and gloves. Use appropriate containment to avoid environmental contamination
Special labelling of certain mixtures		To avoid risks to man and the environment, comply with instructions for use.

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Hazardous components which must be listed on the label:

- Propiconazole
- Tetrahydrofurfuryl alcohol

2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
Tetrahydrofurfuryl alcohol	97-99-4 202-625-6	T R61 R62 R36	Repr. 1B; H360Df Eye Irrit.2; H319	40 - 50 % W/W
propiconazole	60207-90-1 262-104-4	Xn, N R22 R43 R50/53	Acute Tox.4; H302 Skin Sens.1B; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	14.3 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- General Advice : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.
- Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
- Skin Contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
- Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and

delayed Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

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Medical advice : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Use alcohol-resistant foam or water spray.
Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture**
As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
- 5.3 Advice for fire-fighters:**
Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Refer to protective measures listed in sections 7 and 8.
- 6.2 Environmental precautions:**
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and materials for containment and cleaning up**
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- 6.4 Reference to other sections**
Refer to protective measures listed in sections 7 and 8.
Refer to disposal considerations listed in section 13.
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SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
- 7.2 Conditions for safe storage, including any incompatibilities**
No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
- 7.3 Specific end use(s)**
Registered Crop Protection products: For proper and safe use of this product,

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please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
propiconazole	8 mg/m ³	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

- Engineering Measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection** : Suitable material: nitrile rubber.
Break through time: > 480 min
Glove thickness: 0.5 mm
Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye Protection** : Eye protection is not usually required. Follow any site specific eye protection policies.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)
Wear as appropriate: impervious protective suit

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	: liquid
Form	: liquid.
Colour	: Yellowish to orange.
Odour	: Aromatic, like solvent
Odour Threshold	: No data available
pH	: 5 - 9 at 1 % w/v
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 105°C at 997 hPa DIN EN 22719
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.09 g/cm ³ at 20 °C
Solubility in other solvents	: No data available
Partition Coefficient	: No data available
n-octanol/water	
Autoignition temperature	: 280 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: 25.6 mPa.s at 40 °C 59.8 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

9.2 Other information

Surface tension	37.8 mN/m at 20 °C 38.3 mN/m at 20 °C
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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: No information available.
10.2 Chemical Stability	: No information available.
10.3 Possibility of hazardous reactions	: No hazardous reactions by normal handling and storage according to provisions.
10.4 Conditions to avoid	: No decomposition if used as directed.
10.5 Incompatible materials	: No substances are known which lead to the formation of hazardous substances or thermal reactions.
10.6 Hazardous decomposition products	: Combustion or thermal decomposition will evolve toxic and irritant vapours.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 male rat, > 5,050 mg/kg LD50 female rat, 4,343 mg/kg
Acute inhalational toxicity	:	LC50 male and female rat, > 1.08 mg/l, 4 h The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	:	LD50 male and female rabbit, > 2,020 mg/kg The toxicological data has been taken from products of similar composition.
Skin corrosion/irritation	:	Rabbit: non-irritating. The toxicological data has been taken from products of similar composition.
Serious eye damage/eye irritation	:	Rabbit: moderately irritating The toxicological data has been taken from products of similar composition.
Respiratory or skin sensitisation	:	Buehler Test guinea pig: A skin sensitizer in animal tests.
Germ cell mutagenicity	:	
propiconazole	:	Did not show mutagenic effects in animal experiments.
Carcinogenicity	:	
propiconazole	:	Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	:	
propiconazole	:	Did not show reproductive toxicity effects in animal experiments.
tetrahydrofurfuryl alcohol	:	May damage the unborn child. Suspected of damaging fertility.
STOT – repeated exposure	:	
propiconazole	:	No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 25 mg/l, 96 h LC50 <i>Lepomis macrochirus</i> (Bluegill sunfish), 36 mg/l, 96 h
Toxicity to aquatic invertebrates	:	EC50 <i>Daphnia magna</i> Straus, 8.5 mg/l, 48 h
Toxicity to aquatic plants	:	EbC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 5.6 mg/l, 96 h ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 44 mg/l, 96 h. NOEC <i>Pseudokirchneriella subcapitata</i> (green algae), 0.46 mg/l, 96 h

12.2 Persistence and degradability

Biodegradability	:	
propiconazole	:	Not readily biodegradable
Stability in water	:	Degradation half life: 28 - 64 d Stable in water
Stability in soil	:	Degradation half life: 66 - 170 d Not persistent in soil

12.3 Bioaccumulative potential

propiconazole : Low to medium mobility in soil.

12.4 Mobility in soil

propiconazole : Low to medium mobility in soil.

12.5 Results of PBT and vPvB assessment

propiconazole : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating

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(vPvB).

12.6 Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Environmentally hazardous

Sea transport(IMDG)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Marine pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.6	Special precautions for user	:	none

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

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SECTION 15. REGULATORY INFORMATION

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

GHS-Labeling

Hazard pictograms		
		
Signal Word	:Danger	
Hazard Statements	:H317 :H360Df :H411	May cause an allergic skin reaction. May damage the unborn child. Suspected of damaging fertility. Toxic to aquatic life with long lasting effects.
Precautions Statements	:P102 :P201 :P280 :P308/P313 :P391 :P501	Keep out of reach of children Obtain special instructions before use. Wear protective gloves/protective clothing. IF exposed or concerned: Get medical advice/attention. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- Propiconazole

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 13167.

Use plant protection products safely. Always read the label and product information before use.
Based upon SDS release dated 08/09/2014, version 7 with local amendment.

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

R22	Harmful if swallowed.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility

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

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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