



Material Safety Data Sheet

According to EC Directive 1907/2006

Print date: 10-Mar-2008

Revision Number: 0

Revision date:

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

Identification of the substance or preparation

MSDS Ref. No.: 017004
 Product name: Banner Maxx
 GIFAP Code: EC emulsifiable concentrate

Use of the Substance/Preparation

Recommended use: Fungicide.

Company/Undertaking Identification

- Scotts UK Professional, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ United Kingdom

Email: INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

Xn - Harmful
 N - Dangerous for the environment

Most important hazards

Harmful by inhalation.
 May cause sensitization by skin contact
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Propiconazole	60207-90-1	10 - 25%	None	N;R50/53 Xn;R22;R43
Tetrahydro-2-furylmethanol	97-99-4	> 25%	202-625-6	Xi;R36

NE = Non-Established

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

4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.
Skin contact:	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray. alcohol-resistant foam. dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

High volume water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapours.

Special protective equipment for firefighters:

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

Specific methods:

Cool containers / tanks with spray water. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent further leakage or spillage. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling:

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7. HANDLING AND STORAGE

Technical measures/precautions:	Ensure adequate ventilation.
Safe handling advice:	Avoid contact with skin and eyes. When using, do not eat, drink or smoke.
Storage:	
Technical measures/storage conditions:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.
Incompatible products:	No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	Read and follow label instructions.
Occupational exposure controls	
Personal protective equipment	
Respiratory protection:	Self-contained breathing apparatus.
Hand protection:	Chemical resistant gloves. Nitrile rubber.
Eye/face protection	If contact is likely to occur, wear: Safety glasses with side shields or goggles.
Skin and body protection:	impervious clothing.
Hygiene measures	General industrial hygiene practice.
Exposure limit values	
<i>Propiconazole</i> EU TWA:	8h 10mg/m ³ (Supplier data)

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Liquid
Color:	Yellow-orange
Odor:	Aromatic

Important Health Safety and Environmental Information

Flash point:	>105 (°C)
Density:	1.09g/ml at 20°C

Other information

Oxidising properties:	Not oxidizing .
pH:	5 - 9 at 1%w/v

Viscosity: 59.8mPa.s at 20°C
25.6mPa.s at 40°C

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: Combustion or thermal decomposition gives off toxic irritant vapours..

Materials to avoid: No information available

Hazardous decomposition products: No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information

Propiconazole

LD50/oral/rat = 1517 mg/kg
LC50/inhalation/8h/rat = > 5800 mg/m³/4h
LD50/dermal/rat = > 4000 mg/kg

Product information

LC50/inhalation/4h/rat = >1.08mg/l 4h (based on test results obtained with similar product).
LD50/dermal/rat = >2,020mg/kg
LD50/oral/rat = 4,340 - 5,050 mg/kg (based on test results obtained with similar product).

Local effects

Skin effects: May cause skin irritation in susceptible persons

Eye effects: Moderate eye irritation.

Inhalation: May cause sensitization by inhalation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Sensitization: Causes sensitization on guinea-pigs.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity:

LC50/96h/rainbow trout = 25mg/l.
LC50/96h/bluegill sunfish = 36mg/l.
EC50/48h/daphnia = 8.5mg/l.

EC50/72h/algae = 7.7mg/l.

Component information

Propiconazole is not persistent in soil. Propiconazole has low to medium mobility in soil

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: 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. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Empty remaining contents.. Triple rinse containers. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Product information

Physical State: Liquid

ADR/RID

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid N.O.S.(Propiconazole).
Hazard Class: 9
Packing group: III

IATA

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Liquid N.O.S.(Propiconazole)
Hazard Class: 9
Packing group: III

IMO / IMDG

UN-No: 3082
Proper shipping name: Environmentally Hazardous Substance Solid N.O.S.(Propiconazole)
Hazard Class: 9
Packing group: III
Description: Marine Pollutant

15. REGULATORY INFORMATION

Indication of danger:

Xn - Harmful.

N - Dangerous for the environment.

To avoid risks to man and the environment, comply with the instructions for use.

15. REGULATORY INFORMATION



R -phrase(s)

R20 - Harmful by inhalation.

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S 2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feedingstuffs.

S24 - Avoid contact with skin.

S35 - This material and its container must be disposed of in a safe way.

S37 - Wear suitable gloves.

S57 - Use appropriate container to avoid environmental contamination.

S20/21 - When using, do not eat, drink or smoke.

Registration number UK/Eire

MAPP 13167

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

R36 - Irritating 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.

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

Prepared by:

Regulatory Affairs Department.

Full formulation details are confidential to Syngenta Crop Protection UK Ltd, Whittlesford, Cambridge, CB2 4QT

Tel: 01223 833621

Emergency Tel: 01484 538444

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End of Safety Data Sheet