

**SAFETY DATA SHEET**
Profender Topical Solution

122000001666

Version 1.4

Revision Date 12/09/2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: Profender Topical Solution
MSDS Number: 122000001666

Company

BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview**

WARNING! Combustible Liquid Colour: colourless Form: liquid Odour: weak. May cause skin irritation. May cause eye irritation.

Hazard Communication (29CFR 1910.1200)

Skin Contact Eye Contact Ingestion

Acute Skin Hazards

Exposure during the end use of this product is expected to be minimal. May cause irritation with symptoms of reddening and itching.

Acute Eye Hazards

Exposure during the end use of this product is expected to be minimal. May cause irritation with symptoms of reddening, tearing and stinging.

Medical Conditions Aggravated by Exposure

Hypersensitivity to any components of the preparation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
60 - 100%	Tradeseecret	
5 - 10%	Praziquantel	55268-74-1
1 - 5%	Tradeseecret	
1 - 5%	Emodepside (Bay 44-4400)	155030-63-0

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Use adequate ventilation.

Methods for cleaning up: Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

Additional advice: Keep away from/remove sources of ignition.

Further Accidental Release Notes Keep away from/remove sources of ignition.

7. HANDLING AND STORAGE

Handling:

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Storage:

Storage temperature: < 77 °F (< 25 °C)
Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

Hand protection:

Chemically resistant gloves.

Eye protection:

Safety glasses

Other protective measures:

Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	colourless	
Odour:	weak	
Boiling point/boiling range:	ca. 190 °C	
Density:	1.081 g/cm ³ at 68 °F (20 °C)	DIN 51757
Vapour pressure:	no data available	

SAFETY DATA SHEET
Profender Topical Solution

122000001666

Version 1.4

Revision Date 12/09/2010

Viscosity, dynamic:	no data available
Miscibility with water:	completely miscible at 68 °F (20 °C)
pH:	no data available
Partition coefficient (n-octanol/water):	no data available
Flash point:	176 °F (80 °C)
Ignition temperature:	not determined

10. STABILITY AND REACTIVITY

Conditions to avoid: Do not allow product to come in contact with:
Heat

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products:
Carbon monoxide, Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Other information on toxicity:

Praziquantel
not mutagen

Acute oral toxicity:

Praziquantel
LD50 rat: 2,840 mg/kg

Emodepside (Bay 44-4400)
LD50 rat: 500 - 1,000 mg/kg

Acute dermal toxicity:

Emodepside (Bay 44-4400)
LD50 rat: > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin irritation:

Emodepside (Bay 44-4400)
rabbit
Result: No skin irritation
Method: OECD Test Guideline 406

Eye irritation:

Praziquantel
Result: Mild eye irritation

Emodepside (Bay 44-4400)
rabbit
Result: non-irritant

Genotoxicity in vitro:

Emodepside (Bay 44-4400)
Ames test
Result: negative

Pharmaceutic effects:

Praziquantel
Anthelmintics

12. ECOLOGICAL INFORMATION

General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Praziquantel
Acute Fish toxicity: LC50 17 mg/l
Duration of test: 24 h

LC0 32 mg/l
Test species: Danio rerio / Brachydanio rerio (zebra fish)

LC100 100 mg/l
Test species: Danio rerio / Brachydanio rerio (zebra fish)

Emodepside (Bay 44-4400)
LC0 > 0.01 mg/l
No mortality in the water-soluble range.

Toxicity to daphnia and other aquatic invertebrates:

Praziquantel
EC0 35 mg/l

EC100 100 mg/l

Emodepside (Bay 44-4400)
EC50 0.0021 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h

SAFETY DATA SHEET
Profender Topical Solution

122000001666

Version 1.4

Revision Date 12/09/2010

Toxicity to algae:

Praziquantel

Cell multiplication inhibition test EbC50 140 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Cell multiplication inhibition test EbC10 60 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Cell multiplication inhibition test ErC50 77 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Cell multiplication inhibition test ErC10 41 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Cell multiplication inhibition test NOEbC 25 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Cell multiplication inhibition test NOErC 25 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Emodepside (Bay 44-4400)
EC0 0.01 mg/l

No mortality in the water-soluble range.

Toxicity to bacteria:

Praziquantel

EC50 > 1,000 mg/l
Duration of test: 3 h

Emodepside (Bay 44-4400)
EC50 > 10,000 mg/l
tested on: adapted and activated sludge micro-organism

Toxicity on soil-dwelling organisms

Emodepside (Bay 44-4400)LC50 > 1,000 mg/kg
Duration of test: 14 d

Biodegradability:

Praziquantel

0 %, Not readily biodegradable.

Emodepside (Bay 44-4400)
Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control

SAFETY DATA SHEET
Profender Topical Solution

122000001666

Version 1.4

Revision Date 12/09/2010

laws.

14. TRANSPORT INFORMATION

Land transport (DOT)

Non-Regulated

Inland waterway transport

Non-Regulated

Railway transport

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)

Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)

Non-Regulated

15. REGULATORY INFORMATION

US. Toxic Substances Control Act This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components
None

SARA Section 311/312 Hazard Categories Exempt from SARA Section 311/312

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components
None

US. EPA CERCLA Hazardous Substances (40 CFR 302)Components
None

California Prop. 65
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.

Weight percent	Components	CAS-No.
0.1 - 1%	3-tert.-Butyl-4-hydroxyanisol	121-00-6

OSHA Hazcom Standard Rating Hazardous

SAFETY DATA SHEET
Profender Topical Solution

122000001666

Version 1.4

Revision Date 12/09/2010

16. OTHER INFORMATION

NFPA 704M Rating

Health	1
Flammability	2
Reactivity	0
Other	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

The information provided in this 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.