

**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 (CO<sub>2</sub>)

**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 <sup>3</sup> 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 (CO<sub>2</sub>)

---

## 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.**

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
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**

<b>Health</b>	1
<b>Flammability</b>	2
<b>Reactivity</b>	0
<b>Other</b>	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.