

SAFETY DATA SHEET



SDS NUMBER 99/4 NZ

Profender

Date of Issue: 17 February 2016

1. Identification of the Substance/Mixture and Supplier.

Product Name:	Profender
Application:	Spot on treatment for worms in cats
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland, 0627 New Zealand.
Telephone:	0800 652 488
Facsimile:	0800 229 838
Emergency telephone:	0800 734 607 Ixom SH&E Shared services (24hr)
National Poisons Centre:	0800 POISON (0800 764766)

2. Hazards Identification.

Hazardous Status: Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO CLASSIFICATION	GHS HAZARD STATEMENTS
3.1D	H227 Combustible liquid.
6.1E (oral)	H303 May be harmful if swallowed.
6.4A	H319 Causes serious eye irritation.
6.8B	H361 Suspected of damaging fertility or the unborn child.
6.9B (repeated exposure)	H373 May cause damage to organs through prolonged or repeated exposure.
9.1A	H410 Very toxic to aquatic life with long lasting effects.

Signal Word: WARNING

PREVENTION STATEMENTS

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENTS

P370 + P378	In case of fire: Use foam, carbon dioxide or dry chemical powder for extinction.
P101	If medical advice is needed, have product container or label at hand.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

SAFETY DATA SHEET



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Date of Issue: 17 February 2016

SDS NUMBER 99/4 NZ

P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P391	Collect spillage.	
STORAGE STATEMENTS		
P403 + P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
DISPOSAL STATEMENTS		
P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.	
GHS DIAMONDS		
3. Composition/Information on Ingredients.		
<u>Chemical Entity</u>	<u>CAS Number</u>	<u>Proportion</u>
Emodepside*	155030-63-0	2.14% w/v
Praziquantel**	55268-74-1	8.6% w/v
2-hydroxypropionic acid	50-21-5	<10% w/v
1,2-isopropylidenglycerin	100-79-8	>60% w/v
*Emodepside is a depsipeptide: Bis-morpholino-cyclo-octadepsipeptide		
**Praziquantel is 2-(cyclohexylcarbonyl)-1,2,3,6,7,11b-hexahydro-4H-pyrazino- 2,1-a isoquinoline-4-one.		
4. First Aid Measures.		
General information:	Remove victim from contaminated area. If unconscious, position and transport in a stable lateral position.	
Skin contact:	Remove all contaminated clothing, including footwear. Wash affected areas thoroughly with soap and water for at least 15 minutes.	
Eye contact:	Immediately wash open eye in a flow of water for at least 15 minutes. Seek medical assistance if irritation persists. Take container / label or MSDS for identification.	
Ingestion:	Rinse mouth with water. Seek medical assistance if difficulties persist. Take container / label or MSDS for identification.	
Inhalation:	Remove from area and seek medical attention if difficulties present.	
Further information:	Contact the National Poisons Centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.	
Advice to doctor:	Emodepside is a semi-synthetic compound from the new class of depsipeptides active against ascarids and hookworms. It acts by stimulation of the pre-synaptic latrophilin receptor causing the paralysis and death of the parasite. Praziquantel is relatively harmless and is approved for use in human preparations (eg Biltricide)	

SAFETY DATA SHEET



SDS NUMBER 99/4 NZ

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Date of Issue: 17 February 2016

5. Fire-Fighting Measures.

Extinguishing media:	Sprayed water jet, foam, dry powder CO ₂
Fire and explosion hazards	Combustible, flash point >80°C. Outer packaging may burn.
Hazardous combustion products	Not established.
Fire fighting	Fight fire in the early stages if safe to do so. Wear respiratory protection. In well ventilated areas wear full face mask with a combination filter. (Offers no protection from carbon monoxide) In enclosed premises: respirator with independent air supply. In case of fire, care must be taken to contain firefighting water.

6. Accidental Release Measures.

Spill and leak procedure:	Do not empty into drains or waters. Take up spilled product with absorbent material (e.g. lime, sawdust, sand or earth). Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material wash with water. Also place used cleaning materials into closable receptacles. Do not eat, drink or smoke during cleanup operation.
Protective Equipment:	Wear gloves and safety goggles.

7. Handling and Storage.

Handling:	Use as soon as possible after opening package.
Storage:	Store in a cool dry environment. Protect from temperatures below 0°C and above 50°C. Keep out of reach of children. Keep away from food and drink.

8. Exposure Control/Personal Protection

Engineering measures:	No specific requirements
Respiratory Protection:	No specific requirements
Hand Protection:	No skin protection is required under normal conditions. Wash hands and exposed skin before meals and after use. Protective gloves for chemical use should be worn under other conditions.
Eye Protection:	No eye protection required under normal conditions, under other conditions use chemical safety goggles
Hygiene measures:	Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	Colourless
Odour:	Slight characteristic odour
Boiling point:	Approx 190°C
pH value:	3 - 5
Density:	1.08 g/cm ³
Flashpoint:	80°C

SAFETY DATA SHEET



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Date of Issue: 17 February 2016

SDS NUMBER 99/4 NZ

10. Stability and Reactivity

Hazardous decomposition products:	None if stored and handled correctly
Conditions to avoid:	Strong oxidising agents

11. Toxicological Information

Acute toxicity	Oral LD ₅₀ (rat) 2000 - 5000 mg/kg (of formulation) Dermal LD ₅₀ (rat) >2000 mg/kg (of formulation)
Skin irritation:	Skin: not irritating to the skin of rabbits. Non skin sensitising in guinea pigs.
Eye irritation:	Eye irritant
Chronic health studies:	Developmental Effects In a study in which rats were administered emodepside orally at varying dose rates, the NOAEL for foetal development was found to be 0.5 mg/kg bodyweight. Effects on liver and kidneys. Two subchronic feeding studies were performed in rats in which both male and female rats were administered emodepside orally at various dose rates daily for 13-14 weeks. During the course of these studies effects were observed in the liver and kidneys of the rats. The NOAEL determined in these subchronic studies was 0.73 mg/kg in males and 1.1 mg/kg in females. Dermal absorption of emodepside in humans An <i>in vitro</i> skin penetration study with human skin was performed according to OECD guideline 428 with Profender. The Profender was in contact with the skin at a concentration of 100 µL per cm ² skin area (infinite dose conditions) for a period of 48 hours under occlusive conditions. Both the infinite dose and the occlusive conditions are considered to be worst-case conditions. The results of the study showed that only negligible amounts of emodepside penetrated through human skin (< 0.0011% of the applied dose which is below the LOQ for the analytical method) within this time period.

12. Ecological Information

No data available for emodepside. Following data all for praziquantel.	
Fish	LC0 (96h) 31.6 mg/L Zebra barbel (<i>Brachydanio rerio</i>) LC100 (96h) 100 mg/L Zebra barbel (<i>Brachydanio rerio</i>) LC0 (96h) >10 mg/L <i>Lepomis macrochirus</i>
Daphnia	EC0 (48h) 35 mg/L Water flea (<i>Daphnia magna</i>) EC100 (48h) 35 mg/L Water flea (<i>Daphnia magna</i>)
Bacteria	EC50 >10,000 mg/L Activated sludge

13. Disposal Considerations.

Disposal:	Preferably dispose of through use. If this is not possible dispose of in
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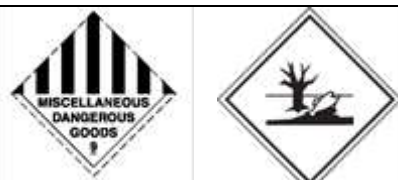
Date of Issue: 17 February 2016

SDS NUMBER 99/4 NZ

After intended use: an approved landfill of waste disposal company.
Dispose of used applicators by wrapping in paper and dispose of in the garbage

14. Transportation Information.

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2.14% emodepside)
UN Number: 3082
Hazard Class: 9
Hazchem Code: 3Z
Packing Group: III
Flashpoint: 80°C
Marine pollutant: Yes
Hazardous substances regulations: Maximum quantity per package permitted on passenger services vehicle 1.0L.



15. Regulatory Information.

HSNO Approval Number: HSR001760
ACVM Registration No: A9546
HSNO Classification
3.1D, 6.1E(o), 6.4A, 6.8B, 6.9B, 9.1A
Registered pursuant to the ACVM Act 1997 No A9546. See www.nzfsa.govt.nz/acvm/ for registration conditions.
Controls for hazardous substances

- This product is exempt from approved handler and tracking requirements
- Level 2 Emergency Management Information required when >1L present in workplace
At least 2 x 4.5kg powder fire extinguishers required when >500L present in a workplace
- Level 3 Emergency Management Plan & Secondary Containment required when >100L present in a workplace
- Toxic signage required when >10000L present in a workplace
- Flammable signage required when >10000L present in a workplace
- Ecotoxic signage required when >100L present in a workplace

16. Other Information.

HSNO = Hazardous Substances and New Organisms Act.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.