

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	EPRINEX Pour-On for Cattle & Deer
Product code:	A7191
Recommended use:	For the treatment and control of major internal and external parasites of cattle, and internal parasites of deer.
Company details:	Merial Ancare
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone numbers:	Merial Ancare Freephone: 0800 800 822 National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
Date of preparation:	13 September 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Avermectin in liquid form		
Product components:			
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	
Eprinomectin	133305-88-1 / 133305-89-2	0.5%	
Non-hazardous inert ingredients		99.5%	

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.8B, 9.1A, 9.2C, 9.3C, 9.4A
Priority and secondary identifiers:	Ecotoxic
Risk and safety phrases:	Harmful – may cause developmental damage to the unborn child from repeated oral exposure. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Ecotoxic – Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment. Harmful to terrestrial vertebrates Very toxic to terrestrial invertebrates. Apply only as directed

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	Contact the National Poisons Information Centre for further information: phone 0800 POISON (764 766) <u>Eye Contact:</u> Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation occurs or persists. <u>Skin Contact:</u> Wash thoroughly with plenty of soap and water after handling. Get medical attention if irritation occurs. <u>Inhalation:</u> If breathing is difficult, give oxygen. If not breathing, artificial respiration. If symptoms appear, get medical attention.
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	<u>Ingestion:</u> Get immediate medical attention if ingested. DO NOT induce vomiting.
Workplace facilities:	N/A
Required instructions	N/A
Notes for medical personnel:	Toxicity following accidental ingestion can be minimized by inducing vomiting within one half hour of exposure. Since eprinomectin is believed to produce effects that mimic enhancement of GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbituates, benzodiazepines, valproic acid) in patients with potentially toxic eprinomectin exposure.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	N/A
Fire hazard properties:	Flash Point: 220°C (428°F) Oxides of nitrogen, sulphur, carbon monoxide and carbon dioxide may be released in a fire.
Regulatory requirements:	N/A
Extinguishing media and methods:	Carbon dioxide, foam or dry chemical.
Hazchem code:	2X
Recommended protective clothing:	Emergency personnel involved in spill cleanup should wear full protective clothing (cap, waterproof coveralls and jacket, and rubber boots). Wear goggles and impervious rubber gloves (neoprene/nitrile/polyvinyl chloride) when handling spilled material.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Eprinomectin is very toxic to certain aquatic species. Avoid contact of spilled material with soil. Do not allow any water potentially contaminated with eprinomectin including storm water, run off from spills and fire fighting activities and contaminated wastewater to enter any waterway, drain or sewer. If emergency personnel are unavailable, absorb small spills on vermiculite or other suitable absorbing material and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal. Incinerate all spill materials and residues at temperatures greater than 600°C.
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Keep this and all chemicals out of reach of children.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required.
Conditions for safe storage:	Keep this and all chemicals out of reach of children. Store bottle in carton to protect from light. Avoid prolonged storage above 40°C (104°F).
Store site requirements:	Stores containing equal to or more than 100L of IVOMEK EPRINEX require bunding and are subject to signage. See the Hazardous Substances Emergency Management Regulations 35-41, Identification Regulations 34 & 35 and NZS 8409 for further information.

Packaging: Packing group III

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Application in the workplace: Respiratory protection is recommended if the potential for exposure to aerosols exists.
Latex gloves or gloves of equal or greater protection are recommended.
To protect against accidental eye contact, goggles should be worn.

Exposure standards outside the workplace: N/A

Engineering controls: N/A

Personal protection: Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Do not eat, drink, smoke or inhale.
Protective clothing should be worn to avoid direct contact.

References: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data: Appearance: Clear, slightly yellow coloured liquid.
Odour/Threshold: Practically odourless.
Solubility: Insoluble in water, soluble in 90% alcohol.
Specific Gravity: 0.91-0.92

Required specifications: N/A

Further specifications: N/A

Specific advice: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance: Stable under normal conditions of storage for 24 months. Any deterioration poses no concern.

Conditions to avoid: Avoid prolonged exposure to excessive heat (40°C) and direct sunlight.
Store away from oxidizing materials.

Material to avoid: Plastic packing materials such as polystyrene, low density polyethylene (high pressure) (LDPE), and PVC should not be used.

Hazardous decomposition products: N/A

Hazardous polymerization: Will not occur.

Specific data: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation: LD/LC50 values that are relevant for classification
133305-88-1 Eprinomectin
Oral LD50 70 mg/kg (mouse)
55 mg/kg (rat)

Summaries data: N/A

Effects of Acute Exposure: Eye Contact : The formulation was practically non-irritating to eyes of rabbits without ocular wash and non-irritating when followed by ocular water wash.

Skin Contact: Both vehicle and formulation were mildly irritating in a 1 month dermal study in miniswine. The formulation and active ingredient were negative in guinea pig skin sensitization assays.

Inhalation: No data available for the formulation or the active.

Ingestion: The formulation was practically non toxic orally in mice (LD50 is greater than 5g/kg). Eprinomectin was toxic by ingestion to mice and rats (LD50 is 55-70mg/kg). Signs of toxicity included ataxia, tremors and death.

Effects of Chronic Exposure:

No data is available for the formulation.

Eprinomectin is a second generation avermectin used as an anti-parasitic agent in cattle and deer. It inhibits transmission of nerve impulses in susceptible parasites, thereby causing paralysis and death.

In a 1 month dermal study in miniswine, both the vehicle and formulation were mildly irritating to the application site. No signs or histologic evidence of neurotoxicity were observed.

Eprinomectin was negative in a battery of genotoxicity assays.

Carcinogen Designation:

Not listed as carcinogen by OSHA, NTA, or IARC. Carcinogenicity studies have not been conducted with eprinomectin.

SECTION 12: ENVIRONMENTAL INFORMATION**Potential environmental interactions:**

Avermectins are very toxic to certain aquatic organisms. Contain all runoff water. See accidental release measures section. All personnel and equipment should be decontaminated at the site.

Studies indicate that when eprinomectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive

Data organisation :

N/A

Environmental risk and safety phrases:

Environmentally hazardous substance, Liquid, N.O.S. (eprinomectin)
Marine pollutant.

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal information :**

Dispose of this product only by using in accordance with the label or at an approved landfill. Do NOT reuse container for any other purpose. Ensure container is completely empty. Recycle or burn if circumstances, especially wind direction and local authority bylaws permit. Otherwise bury in a suitable landfill.

SECTION 14: TRANSPORT INFORMATION**Relevant information:**

Do not carry more than 1L on a passenger service vehicle.

DG Class 9
UN 3082

Tracking not required

Other requirements:

N/A

SECTION 15: REGULATORY INFORMATION**Regulatory status:**

Registered pursuant to the ACVM Act 1997, No. A7191. See www.nzfsa.govt.nz/acvm for registration conditions. Approved pursuant to the HSNO Act 1996, Approval Code HSR001954. See www.ermanz.govt.nz for approval conditions.

HSNO and ACVM controls:

Refer to Section 3

List exposure limits:

N/A

SECTION 16: OTHER INFORMATION

Additional information:

For product information visit the Merial website www.merial.co.nz

While the information set forth is believed to be accurate as of the date hereof, Merial NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.