



SAFETY DATA SHEET

Product Name: EQVALAN Paste for Horses

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Reviewed on: 10th October 2007

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name: EQVALAN Paste for Horses
Product code: A4518
Recommended use: For the treatment and control of intestinal roundworms, lungworm, bots, and some subcutaneous parasites of horses.
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 number: Merial Ancare Freephone: 0800 800 822
National Poisons Centre: 0800 764 766 (0800 POISON)
Fire Service, Ambulance: Dial 111
Date of preparation: 10th October 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Multicomponent Paste / Avermectin

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Ivermectin Comp. B1 _a	70288-86-7	19.6g/kg
Comp. B1 _b	(mixture)	
Other components deemed not hazardous		

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications: 6.1D, 6.8C, 6.9B, 9.1A, 9.2C, 9.3C, 9.4A
Priority and secondary identifiers: Harmful – Keep Out of Reach of Children
Ecotoxic
Risk and safety phrases: Harmful – may be harmful if swallowed, inhaled or absorbed through the skin.
Do not eat, drink or smoke while using. Wear protective clothing such as impervious gloves, waterproof hat, coat and trousers when using. Remove protective clothing and wash hands and face thoroughly before meals and after work.
May cause reproductive/development damage from repeated oral exposure.
Harmful – May cause organ damage from repeated oral exposure at high doses
Ecotoxic – Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
Harmful to the soil environment. Apply only as directed
Harmful to terrestrial vertebrates. Apply only as directed. Avoid contact with skin
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)

	<p><u>Eye contact</u>: Flush with plenty of water; get medical assistance.</p> <p><u>Skin contact</u>: Wash with soap and water.</p> <p><u>Inhalation</u>: No emergency procedures required.</p> <p><u>Ingestion</u>: If accidentally ingested, get medical attention immediately.</p>
Workplace facilities:	N/A
Required instructions:	N/A
Notes for medical personnel:	Overexposure to ivermectin may cause drowsiness, depressed motor activity, slowed breathing, dilation of the pupils, tremors, vomiting, anorexia and incoordination. Direct contact of the solution with eyes can cause irritation. The oral toxicity of this formulation is unknown.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	N/A
Fire hazard properties:	If involved in a fire, toxic gases including carbon monoxide and carbon dioxide may be generated.
Regulatory requirements:	N/A
Extinguishing media and methods:	Use water spray or all purpose day chemical.
Hazchem code:	2X
Recommended protective clothing:	Firefighters should wear self-contained breathing apparatus and full protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:	<p>Shovel or sweep up spilled material and place in an appropriate container for disposal. Use suitable protective equipment (see section 5). Contact emergency response personnel for large spills. Keep unnecessary persons away.</p> <p>Ivermectin is very toxic to certain aquatic species. Avoid contact of spilled materials and runoff with soil and surface waterways. Residual surface material should be removed with towels moistened with methanol. Incinerate all spilled materials and residues at temperatures greater than 500°C.</p> <p>Do not flush into drains or natural waterways or areas draining into potable water supplies.</p> <p><u>Environmental Data</u>: Ivermectin: LC50 (Daphnia Magna) = 36 ppt (parts per trillion)</p>
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Handle with care. Avoid jolting and impact.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required
Conditions for safe storage:	Store under 30°C in a cool, dry place. Store in original carton to protect from light. Keep out of reach of children.
Store site requirements:	N/A
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.
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Application in the workplace:	N/A
Exposure standards outside the workplace:	N/A
Engineering controls:	N/A
Personal protection:	Wash hands and exposed skin before meals or smoking and after work.
References:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance</u> : White paste. <u>Odour/Threshold Level</u> (ppm): Odourless <u>Specific Gravity</u> : 1.13-1.25g/ml
Required specifications:	N/A
Further specifications:	N/A
Specific advice:	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable under normal storage.
Conditions to avoid:	N/A
Material to avoid:	N/A
Hazardous decomposition products:	N/A
Hazardous polymerization:	Will not occur
Specific data:	N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	N/A
Summaries data:	N/A
Effects of Acute Exposure:	<p><u>Eye Contact</u>: Under normal conditions of use, no eye contact with the paste is expected. Direct contact of the paste with eyes can cause irritation.</p> <p><u>Skin Contact</u>: Ivermectin is non-irritating in animal studies. Although skin absorption of this formulation of ivermectin is not established, it has been shown that less than 1% of the closely related compound abamectin is absorbed through the skin of rhesus monkeys when it is applied as emulsifiable concentrate or suspended in alcohol.</p> <p><u>Inhalation</u>: Not an expected route of exposure for this formulation.</p> <p><u>Ingestion</u>: Pure ivermectin is considered highly toxic in acute animal studies. The acute oral toxicity studies of ivermectin have shown clear differences among species in which the compound has been tested. It is therefore inappropriate to base human risk assessment on the response in mice. Ivermectin is used at a therapeutic dose of 200mcg/kg in a variety of species, including human. Ivermectin can be excreted in milk.</p> <p>If overexposed to ivermectin, symptoms may include decreased activity, slow rate of breathing, dilation of the pupils, muscle tremors, and incoordination.</p>
Effects of Chronic Exposure:	Unknown for product mixture. When this product is used according to the directions, prolonged exposure of man is not expected. Ivermectin has tested negative in several mutagenicity studies. Ivermectin was administered to dogs daily for 3 months and to monkeys daily for 2 weeks. In dogs there was no effect up to 500mcg/kg/day and in adult

rhesus monkeys there was no effect at the maximum dosage used 1.2mg/kg/day. At higher doses in dogs there was dilation of the pupils, and at still higher doses tremor and anorexia were noted. Ivermectin can be given during gestation in horses, cattle, pigs and sheep.

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:	Ivermectin: LC50 (Daphnia Magna) = 36 ppt (parts per trillion)
Data organisation :	N/A
Environmental risk and safety phrases:	Environmentally hazardous substance, Solid, N.O.S. (ivermectin)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :	Do not flush into drains or natural waterways or areas draining into potable water supplies (refer Section 6).
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SECTION 14: TRANSPORT INFORMATION

Relevant information:	Tracking not required DG Class 9 UN3077
Other requirements:	N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A4518. See www.nzfsa.govt.nz/acvm for registration conditions. Approved pursuant to the HSNO Act 1996, Approval Code HSR001835. 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:	EQVALAN Paste has been formulated specifically for use in horses only. Dogs and cats may be adversely affected by the concentration of ivermectin in this product if they are allowed to ingest spilled paste or have access to used syringes. 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.
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