

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Ultramax Equine Liquid Tapewormer Broad Spectrum Wormer and Boticide for Horses

Other names: Ultramax Equine Liquid

Recommended use: For the treatment and control of tapeworm, large strongyles, hairworms, pinworms, roundworms (ascarids), intestinal threadworms, large mouthed stomach worms, bots, lungworms, summer sores and cutaneous onchocerciasis in horses.

Supplier Details: Pharmachem
Unit 6, 70 Fison Ave West
Eagle Farm QLD 4009
Telephone: (07) 3868 0333
Facsimile: (07) 3868 0344

Contact Person: Mr Gray Boston

Emergency Telephone: (07) 3630 1654 SWALLOWED

SECTION 2 HAZARDS IDENTIFICATION

This product is not dangerous goods under the Australian Dangerous Goods (ADG) Code, but is classified as hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances and the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]

Health Hazard Information

Toxic (The hazard rating of this material is due to the presence of 1% w/v ivermectin. Praziquantel has a high margin of safety.)

Risk Phrases:

R25 Toxic if swallowed.
R61 May cause harm to the unborn child.
R64 May cause harm to breastfed babies.

Ingestion: Toxic if swallowed. Pure ivermectin is considered highly toxic in acute animal studies. Symptoms noted for overexposure to ivermectin included decreased activity, slow rate of breathing, dilation of the pupils, muscle tremors, and incoordination. In humans, no toxic effects have been noted at doses up to 200µg/kg.

Eye: Although the material is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Skin: The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Inhalation: Not normally a hazard due to non-volatile nature of product.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	Cas No.	Proportion
Praziquantel	55268-74-1	75 g/L
Ivermectin	70288-86-7	10 g/L
Non hazardous, proprietary formulating ingredients		QS 1L

SECTION 4 FIRST AID MEASURES

The following First Aid directions have been set by the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Aging as part of the registration process applied by the Australian Pesticides and Veterinary Medicines Authority (APVMA):

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126. (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals*)

However, the following additional information is provided for assistance in emergency circumstances while implementing the first aid directions above.

Ingestion: Do not induce vomiting as aspiration of the product might occur. Drink large amounts of water.

Eye: Flush with copious quantities of water for at least 15 minutes. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and wash with soap if available).

Inhaled: If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Note To Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, dry chemical, carbon dioxide and water fog or spray.

Hazards from combustion products: May emit toxic fumes.

Special protective precautions and equipment for fire fighters: Use precautions and equipment suitable for the surrounding fire.

Hazchem Code: None allocated

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Do not allow spilled material or contaminated water or clean up material to enter waterways. Surfaces coated with spilled material are slippery. Contain spill using inert absorbent material. Collect and seal contained, absorbed material in specifically labelled chemical waste containers for disposal.

Methods and materials for containment and clean up

Use absorbent material such as soil, sand or vermiculite. Wash area down with detergent and excess water. Do not allow wash water to enter sewers, drains or waterways. Contain wash water as for spilled material.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

The following Safety Directions have been set by the Office of Chemical Safety, Office of Health Protection, Department of Health and Ageing in the *FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals* Poisonous if swallowed. May irritate the eyes. Avoid contact with eyes. Wash hands after use.

Conditions for safe storage, including any incompatibilities:

The following storage directions have been approved by the APVMA as part of the registration process and are required to appear on labelling:

Store below 30°C (Room Temperature). Do not freeze. Store bottle in carton to protect from light.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	None allocated
Biological limit values:	None set
Engineering controls:	Use with adequate ventilation
Personal protective equipment:	Safety glasses and gloves may be worn.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, milky liquid
S.G.	1.05 approx.
pH	7 approx.
Viscosity	100 – 300 cp
Ivermectin	10 g/L
Praziquantel	75 g/L

SECTION 10 STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	Keep away from heat, flame and incompatibles.
Incompatible materials:	Strong oxidising agents and bases
Hazardous decomposition products:	Oxides of nitrogen, carbon dioxide and carbon monoxide may be produced under fire conditions.
Hazardous reactions:	Hazardous polymerisation will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure. Information on individual hazardous ingredients has been provided below where available

Acute Toxicity
Praziquantel:

LD ₅₀ (Oral):	
Mouse	2454 mg/kg
Rat	2840 mg/kg
Rabbit	1050 mg/kg
Dog	200 mg/kg
LD ₅₀ (Intraperitoneal):	
Mouse	376 mg/kg
Rat	586 mg/kg

LD ₅₀ (Subcutaneous):	
Mouse	7172 mg/kg
Rat	>16000 mg/kg
LD ₅₀ (Intramuscular)	
Mouse	>2000 mg/kg
Rat	>2000 mg/kg

Ivermectin

LD ₅₀ (Oral):	
Rat	51.8 mg/kg
Ratling	2- 3 mg/kg
Mouse	25 mg/kg
Dog	80 mg/kg
Monkey	>24 mg/kg
LD ₅₀ (Intraperitoneal):	
Mouse	30 mg/kg
Rat	55 mg/kg
LD ₅₀ (Dermal)	
Rabbit	406 mg/kg
Rat	>660 mg/kg

Skin:	
Rabbit	Slightly irritating.

Eye:	
Rabbit	Slight

SECTION 12 ECOLOGICAL INFORMATION
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This product has been assessed by the APVMA in relation to its environmental affects and the APVMA has determined that the following statement is appropriate for the protection of wildlife, fish, crustaceans and the environment:

Ivermectin is extremely toxic to aquatic species. Do not contaminate dams, rivers, streams or other waterways with the chemical or used container.

A selection of ecological data on the active constituents is provided below:

Praziquantel:

Ecotoxicology:

Fish

LC ₀ (96 h):	Zebra barbel (<i>Brachydanio rerio</i>)	31.6 mg/l
LC ₁₀₀ (96 h):	Zebra barbel (<i>Brachydanio rerio</i>)	100 mg/l

Daphnia

EC ₅₀ (48 h):	35 mg/l
EC ₁₀₀ (48 h):	100 mg/l

Bacterial toxicity

EC ₅₀ :	>10000 mg/l; activated sludge
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Ivermectin:

Ecotoxicology:

Fish

LC ₅₀ (96 h):	Rainbow trout (<i>Salmo gairdneri</i>)	0.025 ppb
	Bluegill sunfish (<i>Lepomis macrochirus</i>)	4.8 ppb
	Water flea (<i>Daphnia magna</i>)	3.0 ppb

Environmental Fate:

PHARMACHEM

MATERIAL SAFETY DATA SHEET

Date of Issue: October 2010

ULTRAMAX EQUINE LIQUID

Page 4 of 6

Ivermectin photodegrades rapidly in the environment and is metabolised in soil. Water solubility is limited and it binds tightly to soil.

Ivermectin does not bioconcentrate in fish and is not taken up from soil by plants. Both aquatic and terrestrial studies confirm the rapid degradation of ivermectin in the environment and its lack of accumulation and persistence.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers:

The following disposal directions for containers have been approved by the APVMA:

Dispose of empty container by wrapping with paper and putting in garbage.

In addition, do not burn empty containers or unused product. Unused product may be disposed of in local municipal landfill.

Special precautions for landfill or incineration:

Seek advice from local government authority before disposing of unused product in municipal landfill.

SECTION 14 TRANSPORT INFORMATION

This product is not defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road and Rail and is therefore not regulated under transport legislation in Australia

SECTION 15 REGULATORY INFORMATION

This product has been registered by the APVMA (APVMA Approval No.: 64084/0410). In granting registration to any product, the APVMA has exercised its legislative responsibility to ensure that the product is suitably formulated and properly labelled and, when used according to instructions is:

- safe to the host, the user, consumers and the environment;
- efficacious (that is, the product does the job it claims it shall do); and
- not unduly prejudicial to trade.

The APVMA uses the services of a number of Australian and State government agencies as advisers to help with some of these evaluations of applications for registration of agricultural and veterinary chemical products. These include:

- the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Ageing which:
 - evaluates and reports on toxicology and metabolism studies; proposes first aid and safety directions; determines poison schedule classifications; and establishes acceptable daily intakes (ADIs) and acute reference doses (ARfD); and
 - evaluates the occupational health and safety aspects of an application and recommends safety directions and occupational controls on use and advises on a Material Safety Data Sheet (MSDS);
- the Commonwealth Department of the Environment and Heritage (DEH) which evaluates environmental data and recommends appropriate use controls and instructions for the product that will protect the environment; and
- State and Territory departments responsible for agricultural and primary industries which evaluate and reports on efficacy and target crop or animal safety data for new agricultural chemicals and new uses of registered products. In some cases the APVMA contracts this work out to other agencies such as universities, the CSIRO or to other experts.

Although all ingredients appear in the Australian Inventory of Chemical Substances (AICS), they have not been assessed by NICNAS (National Industrial Chemicals Notification and Assessment Scheme)

The product is scheduled in Schedule 5 of the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

SECTION 16 OTHER INFORMATION

Date of last revision of the MSDS: October, 2010

CONTACT POINT

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References:

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals, December 2009
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)]
4. AICS (Australian Inventory of Chemical Substances)
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, http://www.apvma.gov.au/morag_vet/index.php
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, March 2010
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 7th Edition
8. Hazardous Substances Information System, Version 1.2.2 (September 2004), Last Updated – October 2010, Safe Work Australia

All information contained in this Material Safety Data Sheet is as accurate and up to date as possible. Since Pharmachem cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Pharmachem will not be responsible for damages of any nature resulting from use of or reliance upon the information. No expressed or implied warranties are given other than those implied as mandatory by Commonwealth State or Territory legislation.