

SAFETY DATA SHEETS

This SDS packet was issued with item:

078722061

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078404114 078722079 078863376

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078861418

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid: None Known
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>): None Known			
Hazardous Decomposition or Byproducts If involved in a fire, toxic gases including carbon monoxide and carbon dioxide may be generated.			
Hazardous Polymerization	May Occur		Conditions to Avoid –
	Will Not Occur	X	None Known
Section VI - Health Hazard Data			
Route(s) of Entry: Inhalation: No Skin: No Ingestion: No			
Health Hazards (<i>Acute and Chronic</i>) Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation. Chronic: Possible hypersensitization and superinfections.			
Carcinogenicity: NTP? IARC Monographs? OSHA Regulated? No components are listed as carcinogenic NPT, IARC, or OSHA.			
NOTE TO PHYSICIAN: Treatment is controlled removal of exposure followed by symptomatic and supportive care.			
Medical Conditions Generally Aggravated by Exposure None presently known.			
Emergency and First Aid Procedures Contact nearest poison control center.			
Eye Contact: Rinse eyes with water for a minimum of 15 minutes and call a physician if irritation persists. Inhalation: No inhalation exposure is expected with this formulation under normal conditions of use. Ingestion: Call a physician or Poison Control Center. Get medical attention immediately. Skin Contact: Wash affected areas promptly with soap and water. Remove contaminated clothing and wash before reuse. If irritation occurs or persists, get medical attention.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material Is Released or Spilled Shovel or sweep up spilled material and place in an appropriate container for disposal. Use suitable protective equipment. Contact emergency response personnel for large spills. Keep unnecessary persons away.			
Waste Disposal Method Ivermectin: LC50 EPA classification=25ppt (parts per trillion), very toxic to aquatic organisms. 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 spill material and residues at temperatures greater than 600degree C. Dogs or 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.			
Precautions to Be Taken in Handling and Storing Store in a cool, dry place below 30degrees C. Avoid contact with eyes and skin. Do not ingest. Refrain from smoking or eating when handling. Wash thoroughly after use. Store upright.			
Other Precautions Keep out of reach of children.			
Section VIII - Control Measures			
Respiratory Precaution (<i>Specify Type</i>) None required.			
Ventilation	Local Exhaust	N/A	Special N/A
	Mechanical (<i>General</i>)	N/A	Other N/A
Protective Gloves	Rubber gloves for prolonged or repeated exposure		Eye Protection Glasses or Goggles
Other Protective Clothing or Equipment Protective clothing such as coveralls or apron.			
Work/Hygienic Practices Wash hands before using.			
OTHER			

The information contained herein is considered to be correct as of the date of this data sheet but does not purport to be all inclusive and shall be used only as a guide.

No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Bimeda, Inc. assumes no responsibility for damages caused by the use, storage or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the product.



MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Equimax

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I	
Manufacturer's Name Virbac Corp	Emergency Telephone Number 888-524-6332
Address (Number, Street, City, State and ZIP Code) P.O Box 162059 Fort Worth, TX 76161	Telephone Number for Information 877-888-7035
	Date Prepared September 30, 2009
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

COMPOSITION:

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Ivermectin Comp. Bla	N/A	N/A	N/A	1.87
Ivermectin Comp. Blb	N/A	N/A	N/A	
Praziquantel	Not Est.	Not Est.	Not Est.	14.03

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	Not Established	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water Not Established			
Appearance and Odor: Odorless, White, Thick, Smooth Paste			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	Not Available	LEL	Not Available	UEL	Not Available
Extinguishing Media Water Spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and material.							
Special Fire Fighting Procedures Will burn if ignited. Fire fighters should wear self-contained breathing apparatus and full protective equipment.							
Unusual Fire and Explosion Hazards Unknown							

(Reproduce locally)

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid: None Known
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>): None Known			
Hazardous Decomposition or Byproducts If involved in a fire, toxic gases including carbon monoxide and carbon dioxide may be generated.			
Hazardous Polymerization	May Occur		Conditions to Avoid –
	Will Not Occur	X	None Known
Section VI - Health Hazard Data			
Route(s) of Entry: Inhalation: No Skin: No Ingestion: No			
Health Hazards (<i>Acute and Chronic</i>)			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
No components are listed as carcinogenic NPT, IARC, or OSHA.			
Signs and Symptoms of Exposure None presently known.			
Medical Conditions Generally Aggravated by Exposure None presently known.			
Emergency and First Aid Procedures			
Ingested: Call a physician or Poison Control Center. Get medical attention immediately. May cause gastric distress if taken in large amounts.			
Skin Contact: Wash affected areas promptly with soap and water. Remove contaminated clothing and wash before reuse. If irritation occurs or persists, get medical attention.			
Eye Contact: Rinse eyes with water for a minimum of 15 minutes and call a physician if irritation persists.			
Inhalation: No inhalation exposure is expected with this formulation under normal conditions of use.			
NOTE TO PHYSICIAN: Treatment is controlled removal of exposure followed by symptomatic and supportive care.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material Is Released or Spilled			
Shovel or sweep up spilled material and place in an appropriate container for disposal. Use suitable protective equipment. Contact emergency response personnel for large spills. Keep unnecessary persons away.			
Waste Disposal Method			
Ivermectin: LC50 EPA classification=25ppt (parts per trillion), very toxic to aquatic organisms. 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 spill material and residues at temperatures greater than 600 degree C. Dogs or 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 unused syringes.			
Precautions to Be Taken in Handling and Storing			
Store in a cool, dry, place below 30 degree C. Avoid contact with eyes and skin. Do not ingest. Refrain from smoking or eating when handling. Wash thoroughly after use. Store upright.			
Other Precautions			
Keep out of reach of children.			
Section VIII - Control Measures			
Respiratory Precaution (<i>Specify Type</i>) None required.			
Ventilation	Local Exhaust	None required	Special N / A
	Mechanical (<i>General</i>)	N/A	Other N / A
Protective Gloves	Yes-Rubber gloves, chemical resistant		Eye Protection Yes-Goggles or Glasses
Other Protective Clothing or Equipment			
Protective covering such as coveralls or apron.			
Work/Hygienic Practices Wash hands after using.			
OTHER			

The information contained herein is considered to be correct as of the date of this data sheet but does not purport to be all inclusive and shall be used only as a guide.

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VIRBAC (AUSTRALIA) PTY. LTD.

Document No:
Equimax
Elevation.Doc
Revision B

SAFETY DATA SHEET

Product Name:
Equimax Elevation Oral Broad Spectrum Wormer and Boticide Paste
for Horses

Page: 1 of 5
Date of Issue
19 November,
2013

Section 1 - Identification of The Material and Supplier

Company:	Virbac (Australia) Pty. Ltd	ABN 77 003 268 871
Address	361 Horsley Rd, Milperra, NSW 2214, Australia Locked Bag 6000, Milperra Business Centre, NSW 1891, Australia	
Telephone:	(02) 9772 9772 or 1800 242 100	
Fax:	(02) 9772 9773	
Emergency phone	As above during business hours; answering machine after hours	

Chemical nature: Blend of anthelmintic ingredients in a suitable carrier.

Trade Name: **Equimax Elevation Oral Broad Spectrum Wormer and Boticide Paste for Horses**

APVMA Code: 63478

Product Use: Worming and boticidal preparation for horses.

Creation Date: **September, 2008**

This version issued: **November, 2013** and is valid for 5 years from this date.

Section 2 - Hazards Identification

STATEMENT OF HAZARDOUS NATURE

This product is classified as: Xn, Harmful. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: R22, R51, R61. Harmful if swallowed. Toxic to aquatic organisms. May cause harm to the unborn child.

Safety Phrases: S20, S61, S24/25. When using, do not eat or drink. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. Avoid contact with skin and eyes.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated



GHS Signal word: DANGER.

HAZARD STATEMENT:

- H302: Harmful if swallowed.
- H360: May damage fertility or the unborn child.
- H401: Toxic to aquatic life.

PREVENTION

- P102: Keep out of reach of children.
- P103: Read label before use.
- P264: Wash contacted areas thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P281: Use personal protective equipment as required.

RESPONSE

- P353: Rinse skin or shower with water.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P308+P313: If exposed or concerned: Get medical advice.
- P332+P313: If skin irritation occurs: Get medical advice.
- P337+P313: If eye irritation persists: Get medical advice.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

- P402+P404: Store in a dry place. Store in a closed container.

Emergency: Virbac: 02 9772 9772 or 1800 242 100 (Business hours only)
Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

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P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & colour: Bright yellow coloured paste.

Odour: Apple fragrance.

Major Health Hazards: may cause harm to unborn children, harmful if swallowed.

Potential Health Effects

Inhalation:

Short term exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is believed to be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: This product is believed to be mildly irritating, to eyes, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m ³)	STEL (mg/m ³)
Ivermectin	70288-86-7	5.3mg/g	not set	not set
Praziquantel	55268-74-1	39.8mg/g	not set	not set
Pyrantel embonate	22204-24-6	345.1mg/g	not set	not set
Other non hazardous ingredients	secret	to 1g	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

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Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. If irritation persists, repeat flushing and obtain medical advice.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

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Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Ivermectin is set at 0.001mg/kg/day. The corresponding NOEL is set at 0.1mg/kg/day.

The ADI for Praziquantel is set at 0.02mg/kg/day. The corresponding NOEL is set at 20mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2012.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for material types.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Bright yellow coloured paste.
Odour:	Apple fragrance.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	No specific data. Paste at normal temperatures.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	No data.
Specific Gravity:	1.09-1.17
Water Solubility:	Partially soluble.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	No data
Autoignition temp:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: acids, strong oxidising agents.

Fire Decomposition: Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

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Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Ivermectin is a SWA Class 2 Reproductive risk, likely to cause decreased fertility in humans.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
Ivermectin	>=0.5%Conc<1%: T; R61; R22

Section 12 - Ecological Information

This product is toxic to aquatic organisms. Insufficient data to be sure of status.

Section 13 - Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredients: Ivermectin, Praziquantel, Pyrantel, are mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Contact point: **Technical Manager, QA Manager or R&D Director**
Telephone **(02) 9772 9772 or 1800 242 100**
Fax **(02) 9772 9773**

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)
 Copyright © Kilford & Kilford Pty Ltd, November, 2013.

<http://www.kilford.com.au/> Phone (02)9251 4532

1. IDENTIFICATION

Product Name	Equell® (ivermectin) Paste 1.87%
Recommended use of the chemical and restrictions on use	
Identified uses	Worm control for horses.
Restrictions on Use	Not for human use.
Company Identification	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161
Customer Information Number	(800) 338-3659
Emergency Telephone Number	
Chemtrec Number	(800) 424-9300
Other Emergency Number:	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
Issue Date	December 17, 2015
Supersedes Date	November 9, 2011

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARDS IDENTIFICATION

Hazard Classification

Acute Hazards to the Aquatic Environment – Category 1 (This classification not adopted by OSHA.)

Label Elements

Hazard Symbols



Signal Word: Warning

Hazard Statements

Very toxic to aquatic life.

Precautionary Statements**Prevention**

Avoid release to the environment.

Response

None

Storage

None

Disposal

Dispose of contents/container in accordance with local regulation.

2. HAZARDS IDENTIFICATION

Other Hazards

None

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	0%
Acute dermal toxicity	<10%
Acute inhalation toxicity	<10%
Acute aquatic toxicity	10 - 20%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Ivermectin	70288-86-7	1.87%
Titanium Dioxide	13463-67-7	1 - 5%

4. FIRST AID MEASURES

Description of necessary first-aid measures**Eyes**

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed**Notes to Physicians**

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

5. FIRE - FIGHTING MEASURES

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Wipe up and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Wash hands after dispensing to dog and before eating, drinking or smoking.

Conditions for safe storage

Store in original container at room temperature 25°C/77°F with excursions permitted between 59°F and 86°F (15°C - 30°C). Keep out of sunlight. Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Ivermectin

None established

Titanium Dioxide

ACGIH TLV: 10 mg/m³ TWA

OSHA PEL: 15 mg/m³ TWA (Total dust)

Appropriate engineering controls

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Individual protection measures**Respiratory Protection**

Not required under normal conditions of use.

Skin Protection

Protective gloves.

Eye/Face Protection

Not required under normal conditions of use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	Physical State	Solid (paste)
	Color	White
Odor		None
Odor Threshold		No data available
pH		Not applicable
Density		No data available
Boiling Range/Point (°C/F)		Not applicable
Melting Point (°C/F)		Not applicable
Flash Point (PMCC) (°C/F)		Not flammable
Vapor Pressure		Not applicable
Evaporation Rate (BuAc=1)		Not applicable
Solubility in Water		No data available
Vapor Density (Air = 1)		Not applicable
VOC		Not applicable
Partition coefficient (n-octanol/water)		Not applicable
Viscosity		Not applicable
Auto-ignition Temperature		No data available
Decomposition Temperature		No data available
Upper explosive limit		No data available
Lower explosive limit		No data available
Flammability (solid, gas)		No data available

10. STABILITY AND REACTIVITY

Reactivity

Data is not available

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Heat - high temperatures

Incompatible Materials

Strong oxidizers

Hazardous Decomposition Products

Oxides of carbon – organic compounds

11. TOXICOLOGICAL INFORMATION

See product insert and/or packaging for additional information.

Acute Toxicity

Ivermectin:

Oral LD50 (rat) 50 mg/kg

Oral LD50 (human) >15mg/kg

Dermal LD50 406 mg/kg (rabbit)

Specific Target Organ Toxicity (STOT) – single exposure

Ivermectin: At high doses in humans and animals vomiting, tachycardia, blood pressure fluctuation, CNS effects (somnolence, ataxia) and visual disturbances have been observed. Higher doses may cause death due to respiratory depression.

Specific Target Organ Toxicity (STOT) – repeat exposure

Ivermectin: No data available

Serious Eye damage/Irritation

Ivermectin: Slightly irritating to eyes in rabbit tests.

Skin Corrosion/Irritation

Ivermectin: Non-irritating in animal studies.

Respiratory or Skin Sensitization

Ivermectin: Hypersensitivity reactions have been reported in humans.

Carcinogenicity

Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC evaluation guidelines consider the generation of tumors, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence. The conclusions of several epidemiology studies on more than 20000 TiO₂ industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO₂ dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO₂ dust. Based upon these studies, titanium dioxide is not expected to cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

Germ Cell Mutagenicity

Ivermectin: Negative in the AMES Assay, and in a mouse lymphoma mutation assay. In addition, it did not induce unscheduled DNA synthesis in a human fibroblast cell culture, suggesting that it does not damage DNA.

Reproductive Toxicity

Ivermectin: Teratogenic in rats, rabbit and mice at or near materno-toxic dose levels. The abnormalities are limited mainly to cleft palate

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ivermectin:

LC50 (Trout) 0.003mg/l 96hr

LC50 (Daphnia magna) 0.000025mg/l 48hr

Mobility in soil

Ivermectin: Ivermectin is metabolized in the soil. Water solubility is limited and it binds to soil very tightly. It does not bioconcentrate in fish and is not taken up from soil into plants.

Persistence/Degradability

Ivermectin: Slow biodegradation. Photodegrades rapidly.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Dispose of the syringe in an approved landfill or by incineration.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product is not regulated under the US EPA Toxic Substance Control Act.

Canada DSL Inventory

All ingredients have been verified for listing on the Domestic Substance List (DSL).

California Proposition 65

This product does not contain any materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization

None

SARA Title III Sect. 313

This product does not contain any chemicals listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biological Oxygen Demand
CAS#: Chemical Abstracts Service Number
DSL: Domestic Substances List ECHA:
European Chemicals Agency EPA:
Environmental Protection Agency
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act
HDT: Highest Dose Tested
HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
LOEL: Lowest Observed Effect Level
N/A: Denotes no applicable information found or available
NFPA: National Fire Protection Association
NOEL: No Observed Effect Level
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
WHMIS: Workplace Hazardous Materials Information System
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

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Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

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