MATERIAL SAFETY DATA SHEET

Product Trade Name: AGRI-MECTIN (ivermectin) Paste 1.87%

SECTION 1 – PRODUCT IDENTIFICATION AND USE

MANUFACTURER’S NAME: BIMEDA-MTC ANIMAL HEALTH  
SUPPLIER’S NAME: BIMEDA-MTC ANIMAL HEALTH

STREET ADDRESS: 420 BEAVERDALE ROAD  
STREET ADDRESS: 420 BEAVERDALE ROAD

CITY AND PROVINCE: CAMBRIDGE, ONTARIO CANADA  
CITY AND PROVINCE: CAMBRIDGE, ONTARIO CANADA

POSTAL CODE: N3C-2W4  
POSTAL CODE: N3C-2W4

TELEPHONE # 519-654-8000  
TELEPHONE # 519-654-8000

CHEMICAL NAME: ivermectin  
CHEMICAL FAMILY: Anthelmintic and Boticide

CHEMICAL FORMULA: C_{48}-H_{74}-O_{14} - C_{47}-H_{72}-O_{14}

PRODUCT USE:

FOR ORAL USE IN HORSES ONLY.

DO NOT USE IN HORSES INTENDED FOR HUMAN CONSUMPTION.

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

Ivermectin paste provides effective treatment and control of the following parasites in horses.

SECTION 2 – HAZARDOUS INGREDIENTS/OR ACTIVE INGREDIENT(S)

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS/OR ACTIVE INGREDIENT(S)</th>
<th>% (W/W)</th>
<th>CAS NUMBER</th>
<th>PRODUCT IDENTIFICATION NUMBER (PIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IVERMECTIN</td>
<td></td>
<td>70288-86-7</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2 – NON – HAZARDOUS INGREDIENTS/OR INACTIVE INGREDIENT(S)

<table>
<thead>
<tr>
<th>NON-HAZARDOUS INGREDIENTS/OR INACTIVE INGREDIENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CORN OIL</td>
<td>8001-30-7</td>
</tr>
<tr>
<td>POLYSORBATE 80</td>
<td>9005-65-6</td>
</tr>
<tr>
<td>APPLE FLAVOR</td>
<td>NA</td>
</tr>
<tr>
<td>AEROSIL</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 3 – PHYSICAL DATA

<table>
<thead>
<tr>
<th>PHYSICAL STATE: PASTE</th>
<th>ODOUR AND APPEARANCE: WHITE TO YELLOW PASTE &amp; APPLE FLAVOR</th>
<th>ODOUR THRESHOLD (ppm):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NA</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>VAPOR PRESSURE at 20°C (68°F)(mm Hg): NA</th>
<th>VAPOR DENSITY (Air = 1): NA</th>
<th>EVAPORATION RATE (Ether = 1): NA</th>
</tr>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>BOILING POINT (DEG.C): NA</th>
<th>FREEZING POINT (DEG. C): Unknown</th>
<th>IGNITION TEMPERATURE: NA</th>
</tr>
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<tr>
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<thead>
<tr>
<th>pH (100%): Unknown</th>
<th>SPECIFIC GRAVITY (H2O = 1): Unknown</th>
<th>SOLUBILITY IN WATER: NA</th>
<th>FLASHPOINT: Unknown</th>
</tr>
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</table>

SECTION 4 – FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>FLAMMABLE: IF YES, UNDER WHICH CONDITIONS: Stable</th>
<th>MEANS OF EXTINCTION: CO₂ FOAM, DRY CHEMICAL</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>SPECIAL HAZARDS CAUSED BY MATERIAL, ITS PRODUCT OF COMBUSTION OR RESULTING GASES: None</th>
<th></th>
</tr>
</thead>
</table>
UPPER FLAMMABLE LIMIT (% BY VOLUME): Unknown
LOWER FLAMMABLE LIMIT (% BY VOLUME): Unknown

AUTOIGNITION TEMPERATURE (DEG. C): Unknown
HAZARDOUS COMBUSTION PRODUCTS: Unknown

SENSIVITY TO IMPACT: Unknown
SENSITIVITY TO STATIC DISCHARGE: Unknown

SECTION 5 – REACTIVITY DATA
CHEMICAL STABILITY – (IF NO, UNDER WHICH CONDITIONS?)
Stable

INCOMPATIBILITY WITH OTHER SUBSTANCES (IF YES, WHICH ONES?)
None Known

REACTIVITY, AND UNDER WHAT CONDITIONS?
Non Known

HAZARDOUS DECOMPOSITION PRODUCTS:
None Known

SECTION 6 – TOXICOLOGICAL PROPERTIES
SENSITIZING CAPABILITY:
INFORMATION FOR HORSE OWNERS: Swelling and itching reactions after treatment with ivermectin paste have occurred in horses carrying heavy infections of neck threadworm (*Onchocerca sp. microfilariae*). These reactions were most likely the result of microfilariae dying in large numbers. Symptomatic treatment may be advisable.

REPRODUCTIVE EFFECTS:
ANIMAL SAFETY: Bimectin (ivermectin) Paste may be used in horses of all ages, including mares at any stage of pregnancy. Stallions may be treated without adversely affecting their fertility.

Carcinogenicity Studies:
Species: RAT
Strain/Sex: WISTAR/MALE
Route: ORAL
Dose: 0; 2 PPM IN DIET FOR DURATION OF STUDY (STUDY DURATION: 1 YR)
Results: NEGATIVE
Reference: [O'CONNOR, PJ; MACNAUGHT, F; BUTLER, WH; COOPER, DP; MARGISON, GP; AND POVEY, AC; INCREASED PATHOLOGY INCIDENCE IN THE FORESTOMACH OF RATS MAINTAINED ON A DIET CONTAINING IVERMECTIN AND GIVEN A SINGLE DOSE OF N-METHYL-N'-NITRO-N-NITROSOGUANIDINE; J. ENVIRON. PATHOL. TOXICOL. ONCOL. 20(3):223-227, 2001]

SECTION 7 – PREVENTATIVE MEASURES
PERSONAL PROTECTIVE EQUIPMENT: SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT

GLOVES (Specify):
Not required under normal conditions of use.

RESPRATOR (Specify):
Use suitable respiratory protective device when aerosol or mist is formed.

EYES (Specify):
Tightly sealed eye wear protection.

FOOTWEAR (Specify):
Not required under normal conditions of use.

CLOTHING (Specify):
Impenetrable protective clothing as required. Not required under normal conditions of use.

OTHER (Specify):
Do not eat, drink, smoke or inhale. Do not store food in working area.

LEAK AND SPILL PROCEDURES: Immediately contact emergency response personnel. Contain large spills and transfer to an appropriate container for disposal. Absorb small spills on vermiculite or suitable absorbing material. ENVIRONMENTAL SAFETY: Ivermectin and excreted ivermectin residues may adversely affect aquatic organisms. Do not contaminate ground or surface water. Dispose of the syringe in an approved landfill or by incineration.

WASTE DISPOSAL: DISPENSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

STORAGE AND HANDLING REQUIREMENTS: Store in cool, dry place in tightly closed containers. Protect from freezing. Handle with care. Avoid jolting of product. Use only in well ventilated areas. Wash hands thoroughly after handling. Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and skin.

Product Storage:
STORE BETWEEN 20°C - 25°C (68°F - 77°F)
Excursions between 15°C - 30°C (59°F - 86°F) are permitted.

SECTION 8 – FIRST AID MEASURES:
General: Involve a doctor immediately.

Eyes: Rinse opened eye for a minimum of 15 minutes under running water. Get medical attention immediately.

Skin: Immediately wash with soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

Ingestion: Do not induce vomiting; call a physician or Poison Control Center immediately.
Inhalation: Remove person to fresh air. Seek immediate medical advice.

Other: Prolonged contact may cause skin irritation and/or drying and cracking of the skin, nausea, headache and mild narcosis. If ingested, decreased activity, slow rate of breathing, dilation of the pupils, muscle tremors and in-coordination may occur.

ROUTE OF ENTRY: Inhalation, Skin, Eyes, Ingestion

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
Hasn't been thoroughly evaluated and determined per raw material and finished product use.

US Emergency Response Number | Chemtrec | 1-800-424-9300

SECTION 9 – PREPARATION DATA

DATE: TELEPHONE NUMBER: 519-654-8000
DATE REVISED: 04/07/2014

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of this material has been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact supplier.