MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Oxy-Tet™ 200/Bio-Mycin® 200
Product No.: NADA 200-008
MSDS ID#: P200-008
GHS Product Identifier: Not applicable

Molecular Formula: Mixture, not applicable
Molecular Weight: Mixture, not applicable
CAS Number: Mixture, not applicable
Chemical Family: Antibiotic

Manufacturer:
Boehringer Ingelheim Vetmedica, Inc.
2621 North Belt Hwy
St. Joseph, MO 64506-2002

Transportation Emergency: For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Medical Emergency (24HR): (866) 638-2226
Non-Emergency Telephone: (800) 821-7467

Intended Use: For use in the treatment of diseases in animals due to oxytetracycline susceptible organisms.

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid
Color: Clear yellow to yellow-brown
Odor: Slight odor

DANGER!
Contains a component that may cause reproductive effects.
Chronic exposure potential is not expected.
For use in animals only.
Not for human use.
Allergic reactions can occur.

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.

Response:
If exposed or concerned: Get medical advice/attention.

Storage:
Store locked up.

Disposal:
Dispose of contents/container according to applicable federal and local regulations.

Additional statements:
Keep only in original container.
Keep at a temperature below 25°C.
Do not freeze.
Accidental human injection can cause serious local reactions or anaphylactic reaction and systemic effects.
Wear suitable gloves and eye/face protection.
Avoid contact with eyes, skin and clothing.
Wash thoroughly with soap and water after handling.
If swallowed, seek medical advice immediately and show this container or label.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Spills: Absorb spilled substance with inert material and sweep into appropriate waste containers.
Keep out of reach of children.
Keep away from food, drink, and animal feedstuffs.

Potential Health Effects

Inhalation: Not expected to be an inhalation hazard with prescribed use.

Eye Contact: Not expected to be a hazard to the eye with prescribed use. Exposure to liquid in eye may cause eye irritation.

Skin Contact: Not expected to be a hazard to the skin with prescribed use. May cause skin irritation. May cause skin sensitization by contact. Can cause hypersensitive reactions.
**Ingestion:** Expected to be a low ingestion hazard. Ingestion may cause nausea and systemic effects.

**Injection:** Swelling at injection site may occur.

**Chronic Health Effects:** Possible hypersensitization (development of abnormal sensitivity). Exposure (or therapeutic use) in pregnant women causes mottled discoloration of tooth enamel. Possible reproductive hazard — may cause harm to unborn fetus.

**Target Organ(s):** Skin, teeth, bones, reproductive system

**OSHA Regulatory Status:** Hazardous (Exempt)

**Environment:** No data available

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Concentration</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxytetracycline</td>
<td>201-212-8</td>
<td>79-57-2</td>
<td>20 %</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>Polyethylene Glycol 400 (PEG 400)</td>
<td>500-038-2</td>
<td>25322-68-3</td>
<td>30 %</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>215-171-9</td>
<td>1309-48-4</td>
<td>1.7 %</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

Components not listed are not hazardous or are below reportable limits.

The full texts for all R-Phrases are displayed in Section 16.

### 4 FIRST AID MEASURES

**General:** Animals or persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention.

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Eye Contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Injection:** In case of accidental injection, wash the site thoroughly. Contact a physician immediately.

**Note to Physician:** For animal injection only. Not for human use.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with water spray, dry chemical, carbon dioxide
Unsuitable Extinguishing Media: None known

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: None known

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides, magnesium oxides, hydrogen chloride

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment (See Section 8).

Spill Cleanup Methods: STEPS TO BE TAKEN IF SIGNIFICANT QUANTITIES OF PRODUCT IS SPILLED: Absorb or cover with dry earth, sand or other non-combustible material. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before use.

Environmental Precautions: Prevent runoff from entering drains, sewers or streams. Dike for later disposal.

7 HANDLING AND STORAGE

Handling: HANDLING SIGNIFICANT QUANTITIES OF PRODUCT: Avoid contact with eyes, skin or clothing. Avoid accidental injection. Wash hand thoroughly after handling.


8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Source</th>
<th>Type</th>
<th>Exposure Limits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium oxide, inhalable fraction</td>
<td>ACGIH</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>----</td>
</tr>
<tr>
<td>Magnesium oxide fume, total particulate</td>
<td>OSHA</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>----</td>
</tr>
<tr>
<td>Polyethylene glycol (as a particulate)</td>
<td>AIHA</td>
<td>WEELs</td>
<td>10 mg/m³</td>
<td>----</td>
</tr>
</tbody>
</table>

Where lower governmentally imposed exposure limits exist, such limits should take precedence.

Engineering Controls: Not generally required when handling containers. Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Respiratory Protection: Not generally required when handling containers. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA standard 63 FR 1152, January 8, 1998. Respirator type: NIOSH approved particulate respirator.

Europe: Wear appropriate personal protective equipment according to the Council Directive 89/686/EEC (4) and the appropriate CEN standards.

PERSONAL PROTECTIVE EQUIPMENT: Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely wear:

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Wear suitable gloves.

Skin Protection: Wear lab coat, apron or appropriate clothing to prevent skin contact.

Hygiene Measures: Eye bath, washing facilities.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear yellow to yellow-brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>8.7 – 8.9 Estimated</td>
</tr>
<tr>
<td>Melting Point</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limit – Upper (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limit – Lower (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.125 – 1.145 g/mL</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 10 STABILITY AND REACTIVITY

Stability: Stable.
**Conditions to Avoid:** Excessive heat, direct sunlight and freezing.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, magnesium oxides, hydrogen chloride

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

### 11 TOXICOLOGICAL INFORMATION

**Specified Substances**

**Acute Toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxytetracycline</td>
<td>Oral LD50 (rat): 4800 mg/kg</td>
</tr>
<tr>
<td>Polyethylene glycol 400</td>
<td>Administration into the eye, rabbit; 500 mg; mild irritant</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (rat): &gt; 30 gm/kg</td>
</tr>
<tr>
<td></td>
<td>Dermal LD50 (rabbit): &gt; 20 gm/kg</td>
</tr>
</tbody>
</table>

**Chronic toxicity:** Possible hypersensitization (development of abnormal sensitivity). Exposure (or therapeutic use) in pregnant women causes mottled discoloration of tooth enamel. Possible reproductive hazard — may cause harm to unborn fetus.

**Listed Carcinogens:** None listed.

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and degradability:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

**Germany WGK:** Magnesium oxide ID No: 5208; Class 1: slightly water-endangering. Polyethylene glycol ID No: 279; Class 1: slightly water-endangering.

### 13 DISPOSAL CONSIDERATIONS

**General Information:** Dispose of in accordance with local, state, federal, national or international regulations.

**Disposal Methods:** No specific disposal method required. Do not empty into drains. Dispose of this material and its container in a safe way. Do not contaminate water, food, or feed by disposal.

**RCRA Information:** Not applicable
14 TRANSPORT INFORMATION

**DOT:** Not Regulated

**TDG:** Not Regulated

**ADR/RID:** Not Regulated

**IATA:** Not Regulated

**IMDG:** Not Regulated

15 REGULATORY INFORMATION

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** D/2/A, Exempt

**Inventory Status**
This material is listed on the following inventories: AICS, TSCA, DSL, IECSC, EINECS, ENCS, KECl PICCS, and NZIoC.

**Canada CEPA Schedule 1** – None listed

**US Regulations**

CERCLA Hazardous Substance List (40 CFR 302.4): None listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None listed.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None listed.

**SARA Title III**
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None listed.

**Section 311/312 (40 CFR 370):**

- X Acute (Immediate)
- X Chronic (Delayed)
- Fire
- Reactive
- Pressure Generating

**Section 313 Toxic Release Inventory (40 CFR 372):** None listed.

**State Regulations**

**California:** Restricted Drug (California) – Use Only as Directed

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**
Oxytetracycline; Developmental toxin

**Massachusetts Right-To-Know List:** Magnesium oxide
Minnesota Hazardous Substances List: Magnesium oxide; Polyethylene glycol

New Jersey Right-To-Know List: Magnesium oxide

Pennsylvania Right-To-Know List: Magnesium oxide

Rhode Island Right-To-Know List: Magnesium oxide

European Regulations

Austria MAK List (Annex I): Magnesium oxide; Polyethylene glycol

Denmark (Annex 3.6): None listed.


Norway (List of Dangerous Substance): None listed.

Sweden (Annex 3): None listed.

Switzerland (Toxins List 1): Magnesium oxide; Polyethylene glycol

| 16 OTHER INFORMATION |

Hazard Ratings

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
<th>Special Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* – Chronic health effect; 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe

EU Symbol and R Phrase Definitions: None listed

ABBREVIATIONS:

BIV – Boehringer Ingelheim Vetmedica, Inc.

AIHA – American Industrial Hygiene Association

mppcf – million particles/cubic foot

N/A – Not applicable.

N/E – Not established.

References:

1. Oxy-Tet™ 200/Bio-Mycin® 200 MSDS.
3. GHS Manual

Prepared by: Boehringer Ingelheim Vetmedica, Inc.

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Revision Information: 5/10/2013

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