MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alpha-7™ Injection
Product No.: 7410.01
GHS Product Identifier: Not applicable

Synonyms: Clostridium Chauvoei-Septicum-Novyi-Sordellii-Perfringens Types C & D
Bacterin-Toxoid Vaccine
Molecular Formula: Mixture, not applicable
Molecular Weight: Not applicable
CAS Number: Mixture, not applicable
Chemical Family: Vaccine

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

Emergency Telephone:
Transportation Emergency: (800) 424-9300
Medical Emergency (24HR): (800)530-5432

Intended Use:
Seven-way Clostridia Vaccine for healthy, susceptible cattle, including bred heifers, lactating beef and dairy cattle, against disease caused by Clostiridium chauvoei, CI septicum, CI novyi, CI sordellii, and CI perfringens Types C and D.

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid; Multi-dose vials: 20 mL (10 doses); 100 mL (50 doses); 500mL (250 doses)
Color: White
Odor: No data available

WARNING!
For cattle injection only.
Not for human use.
May cause allergic skin reaction.

Precautionary Statements:
Accidental human injection can cause serious local reactions or anaphylactic reaction and systemic effects.
Keep only in original container.
Keep at a temperature not exceeding 7° C.
Fire-fighting: Use foam, carbon dioxide, dry powder and water fog or material appropriate for surrounding fire.
Avoid contact with eyes, skin and clothing.
Wash thoroughly with soap and water after handling.
Wear suitable gloves and eye/face protection.
Spills: Cover with absorbent or contain. Collect and dispose.
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.
If swallowed, seek medical advice immediately and show this container or label.
This material and its container must be disposed of in a safe way.
Keep out of reach of children.
Keep away from food, drink, and animal feedstuffs.

Acute effect:
Swelling at injection site may occur.

Precautions/Contraindications:
Use entire contents when first opened. Do not vaccinate within 60 days of slaughter.

Overdosage: None known.

ADVERSE REACTIONS TO PRODUCT: Anaphylactoid reactions may occur.

Potential Health Effects

Inhalation: Not expected to be an inhalation hazard.

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: Can cause hypersensitive reactions. May cause skin sensitization by contact.

Ingestion: Not expected to be an ingestion hazard with prescribed use. Ingestion may cause vomiting, nausea or other systemic effects.

Injection: Swelling at injection site may occur.

Chronic Health Effects: Possible hypersensitization (development of abnormal sensitivity).
Target Organ(s): Immune System

Potential Physical Effects: Can cause skin sensitization.

OSHA Regulatory Status: Nonhazardous, exempt

Environment: No data available

### 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>Mineral oil</td>
<td>2323842</td>
<td>8012-95-1</td>
<td>55</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>2000018</td>
<td>50-00-0</td>
<td>.5</td>
<td>Xi, R43</td>
<td>-----</td>
</tr>
<tr>
<td>Gentamicin sulfate</td>
<td>2157789</td>
<td>1405-41-0</td>
<td>30 mcg/mL</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td><em>Clostridium chauvoei</em></td>
<td>----</td>
<td>N/A</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td><em>Clostridium septicum</em></td>
<td>----</td>
<td>N/A</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td><em>Clostridium novyi</em></td>
<td>----</td>
<td>N/A</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td><em>Clostridium perfringens</em>, Type C</td>
<td>----</td>
<td>68583-13-1</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td><em>Clostridium perfringens</em>, Type D</td>
<td>----</td>
<td>68583-14-2</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td>Deionized water</td>
<td>2317912</td>
<td>7732-18-5</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
<tr>
<td>Montanide 888</td>
<td>----</td>
<td>mixture</td>
<td>proprietary</td>
<td></td>
<td>-----</td>
</tr>
</tbody>
</table>

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

### 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:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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.  
**Antidote:** Epinephrine is indicated for anaphylactoid reactions.

### 5  FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder and water fog or material appropriate for surrounding fire.

**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.

**Flammability Class:** 0

### 6  ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate personal protective equipment.

**Spill Cleanup Methods:** Small liquid spill: Use a non-combustible material like vermiculite, earth or sand to soak up the product and place into container for later disposal. For large liquid spill: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

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

### 7  HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid accidental injection. Wash thoroughly with soap and water after handling. Use only with adequate ventilation.

**Storage:** Keep only in the original container. Store at 2°-7° C (35°-45° F). Avoid freezing. Keep out of reach of children. Keep away from food, drink, and animal feedstuffs.

### 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

**For Exposures:**

**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>Clostridium chauvoei</td>
<td>----</td>
<td>----</td>
<td>N/A</td>
<td>----</td>
</tr>
<tr>
<td>Clostridium septicum</td>
<td>----</td>
<td>----</td>
<td>N/A</td>
<td>----</td>
</tr>
<tr>
<td>Clostridium novyi</td>
<td>----</td>
<td>----</td>
<td>N/A</td>
<td>----</td>
</tr>
<tr>
<td>Clostridium perfringens, Type C</td>
<td>----</td>
<td>----</td>
<td>N/A</td>
<td>----</td>
</tr>
<tr>
<td>Clostridium perfringens, Type D</td>
<td>----</td>
<td>----</td>
<td>N/A</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>ACGIH</td>
<td>8-HR TWA</td>
<td>0.3 ppm</td>
<td>Irritation, cancer</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>OSHA</td>
<td>Action Level</td>
<td>.75 ppm</td>
<td>Cancer-suspect agent</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Alberta</td>
<td>8-HR TWA</td>
<td>.75 ppm</td>
<td>Irritation</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>British Columbia</td>
<td>8-HR TWA</td>
<td>0.3 ppm</td>
<td>Capable of causing respiratory, dermal or conjunctival sensitization.</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Ontario</td>
<td>8-HR TWA</td>
<td>1 ppm</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Quebec</td>
<td>Ceiling Exposure Value</td>
<td>2 ppm</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Austria MAK List (Annex I)</td>
<td>TWA</td>
<td>.06 mg/m$^3$</td>
<td>Justifiably suspected of carcinogenic potential. Skin absorption. Sensitizer</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Belgium</td>
<td>15-minute STEL</td>
<td>0.38 mg/m$^3$</td>
<td>Irritant</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Denmark</td>
<td>Ceiling</td>
<td>0.4 mg/m$^3$</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Finland</td>
<td>8-HR Limit</td>
<td>.37 mg/m$^3$</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>France</td>
<td>Short Term Limit (VLE)</td>
<td>1 ppm</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Greece</td>
<td>8-HR TWA</td>
<td>2.5 mg/m$^3$</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Iceland</td>
<td>8-HR TWA</td>
<td>0.4 mg/m$^3$</td>
<td>Allergenic substance</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Ireland</td>
<td>8-HR TWA</td>
<td>2.5 mg/m$^3$</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Italy</td>
<td>Ceiling limit</td>
<td>.3 ppm</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Netherlands</td>
<td>MAC TWA</td>
<td>1.5 mg/m$^3$</td>
<td>----</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Norway</td>
<td>TLV</td>
<td>0.6 mg/m$^3$</td>
<td>Allergenic substance</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Portugal</td>
<td>OELs</td>
<td>3 ppm</td>
<td>Sensitizer,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------</td>
<td>------------------</td>
<td>------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Spain</td>
<td>15-minute STEL</td>
<td>0.37 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Sweden</td>
<td>Level Limit Value</td>
<td>0.6 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>Switzerland</td>
<td>TWA</td>
<td>0.37 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>United Kingdom</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td>---</td>
</tr>
<tr>
<td>Montanide 888</td>
<td></td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH</td>
<td>8-HR TWA</td>
<td>5.0 mg/m³</td>
<td>Lung</td>
</tr>
<tr>
<td>Oil mist (mineral)</td>
<td>OSHA</td>
<td>PEL</td>
<td>5.0 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Oil mist (mineral)</td>
<td>Belgium</td>
<td>8-HR TWA</td>
<td>5.0 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Oil mist (mineral)</td>
<td>Denmark</td>
<td>8-HR TWA</td>
<td>1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Oil mist (mineral)</td>
<td>Finland</td>
<td>8-HR limit</td>
<td>5.0 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Controls:** Not generally required when handling vials or 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 vials or 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 organic vapor respirator.

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

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

**Hand Protection:** Wear suitable gloves.

**Skin Protection:** Wear protective clothing appropriate for the risk of exposure.

**Hygiene Measures:** Eye bath, washing facilities, shower

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Color:** White

**Odor:** Odorless

**Odor Threshold:** No data available

**Physical State:** Liquid; Multi-dose vials: 20 mL (10 doses); 100 mL (50); 500mL (250) doses

**pH:** No data available

**Melting Point:** No data available

**Freezing Point:** No data available
Boiling Point: No data available
Flash Point: No data available
Flammability Limit – Upper (%): No data available
Flammability Limit – Lower (%): No data available
Evaporation rate: No data available
Vapor Pressure: No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility: No data available
Partition Coefficient (n-Octanol/water): No data available
Autoignition Temperature: Not applicable
Decomposition Temperature: No data available

10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None known

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>Formaldehyde</td>
<td>Oral LD50 (rat): 100 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (rat): 500 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Dermal LD50 (rabbit): 270 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation TCLo (rat): 40 ppm (effects on embryo or fetus: fetotoxicity (except death, e.g., stunted fetus))</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (mouse): 500 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Subcutaneous LD50 (mouse): 300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Eye irritation (rabbit): 10 mg: severe irritation</td>
</tr>
<tr>
<td></td>
<td>Eye irritation (human): 1 ppm/6M rinse : mild irritation</td>
</tr>
<tr>
<td></td>
<td>Skin irritation (human): 150µg/3D-I : mild irritation</td>
</tr>
<tr>
<td></td>
<td>Skin irritation (rabbit) 2mg/24hr: severe irritation</td>
</tr>
<tr>
<td>Gentamicin Sulfate</td>
<td>Oral LD50 (rat): &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (mouse): &gt; 11,269 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Intramuscular LD50 (rat): 245 mg/kg</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>Oral LD50 (rat): 22 gm/kg</td>
</tr>
<tr>
<td></td>
<td>Eye Irritation (rabbit) : 500mg, moderate irritation</td>
</tr>
<tr>
<td></td>
<td>Skin Irritation (guinea pig) : 100mg/24hr, mild irritation</td>
</tr>
</tbody>
</table>

7/11
Listed Carcinogens

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>1</td>
<td>Anticipated</td>
<td>Cancer-Suspect Agent</td>
<td>A2 –Suspected human carcinogen</td>
</tr>
</tbody>
</table>

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: Formaldehyde: ID No: 112; Class: 2: water-endangering.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with local, state and federal 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 storage disposal.

RCRA Information: EPA Hazardous U-number Formaldehyde: U122, D001.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

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: Noncontrolled, exempt
Inventory Status
This material is not listed on the US TSCA Inventory. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use.
This material is not listed on the DSL Inventory.

Canada CEPA Schedule 1 - Formaldehyde

US Regulations
CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Component</th>
<th>Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>100 lbs</td>
</tr>
</tbody>
</table>

SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

<table>
<thead>
<tr>
<th>Component</th>
<th>Reportable Quantity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>100 lbs</td>
<td>500 lbs</td>
</tr>
</tbody>
</table>

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Formaldehyde

State Regulations
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
Formaldehyde (gas)
Massachusetts Right-To-Know List: Oil mist, (mineral), Formaldehyde, Formalin
Minnesota Hazardous Substances List: Oil mist, (mineral), Formaldehyde
New Jersey Right-To-Know List: Mineral oil, Formaldehyde
Pennsylvania Right-To-Know List: Mineral oil mist, Formaldehyde
Rhode Island Right-To-Know List: Mineral oil, Formaldehyde

European Regulations
Austria MAK List (Annex I): Formaldehyde: Carcinogens Group IIIB (Justifiably suspected of carcinogenic potential-Special danger of skin absorption).
Denmark (Annex 3.6, April 2005): Carcinogens: Formaldehyde
Germany (Dangerous Substances Ordinance 2004, Annex III): Formaldehyde
Norway (List of Dangerous Substance): Formaldehyde
Sweden (Sensitizers- Annex 3): Formaldehyde
Switzerland (Toxins List 1): Formaldehyde: Toxicity Category 3

16 OTHER INFORMATION

Hazard Ratings

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

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

Xi - Irritant
R43 - May cause sensitization by skin contact.
S24 - Avoid contact with skin.
S37 – Wear suitable gloves.

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:
2. Alpha-7™ Product Label, Boehringer Ingelheim Vetmedica, Inc.
4. RTECS – Formaldehyde. RTECS No. LP8925000
5. RTECS - Gentamycin, sulfate. RTECS No. LY26225000
6. RTECS – Mineral Oil. RTECS No. PY8030000
7. Food & Drug Administration. [www.fda.gov](http://www.fda.gov)
8. GHS Manual

Revision Information: Updated all sections of the MSDS for ANSI, GHS and OSHA Compliance.
Prepared by: Boehringer Ingelheim Vetmedica, Inc.
Issue Date: 07/07/06
Supercedes Date: 3/21/05

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