

SAFETY DATA SHEETS

This SDS packet was issued with item:

078377469

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).

078377998

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:

Elite 9

AS SOLD BY AGRILABS



A Service of

COMPAS

MATERIAL SAFETY DATA SYSTEMS

www.compasmsds.com

Material Safety Data Sheet

| DOT | HCS Risk Phrases | Protective Clothing |
|---|--|---|
|  | Not an HCS controlled material in USA. |  |

Section 1: Product Identification and Uses

| | | | |
|-------------------|--|------------------|---|
| Common/Trade name | Elite 9™ (4465.20) | Cl# | Not available |
| Synonyms | Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3-Respiratory Syncytial Virus Vaccine, Killed Virus, Leptospira, Canicola-Grippytyphosa-Hardjolcteroheamorrhagiae-Ponoma Bacterin | TSCA | TSCA inventory: No products found. |
| Chemical name | Not applicable | CAS# | Not applicable |
| Chemical formula | Not applicable | Code | MSDS ID#: B4465.20 |
| Chemical family | Not available | Molecular weight | Not applicable |
| Supplier | Boehringer Ingelheim Vetmedica, Inc. 2621 North Belt Hwy St. Joseph MO 64506-2002 | Manufacturer | Boehringer Ingelheim Vetmedica, Inc. 2621 North Belt Hwy St. Joseph MO 64506-2002 816-233-2571 |
| Material uses | Vaccine | | |

Section 2: Hazardous Ingredients

| Name | CAS# | % by Weight | TLV/PEL | LC50 / LD 50 |
|---------------------------------|--------------------|-------------|--|---|
| 1)Merthiolate 2)Formaldehyde | 54-64-8 50-00-0 | .01 .02 | Not available .75 ppm TWA 2 STEL | LD50, Oral, Rat 75 mg/kg ORAL (LD50): Acute: 14200 mg/kg [Rabbit]. DERMAL (LD50): Acute: 15890 mg/kg [Rabbit]. GAS (LC50): Acute: 64000 ppm 4 hour(s) [Rat]. LD Lo, Oral Woman 36 mg/kg; TC Lo, Inhalation, Human 17 ppm. |

Section 3: First Aid Measures

| | |
|------------------------|---|
| Eye contact | Flush eyes with copious amounts of water. |
| Skin contact | Not considered a skin irritant. After contact with skin, wash immediately with plenty of water. If irritation occurs, seek immediate medical attention. |
| Hazardous skin contact | No additional information. |
| Slight inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. Apply artificial respiration if needed. |
| Hazardous inhalation | No additional information. |
| Slight ingestion | No information available regarding ingestion. Notify physician or Poison Control Center immediately. |
| Hazardous ingestion | Not available |

Section 4: Physical Data

| | | | |
|---------------------------------|---|-------|---------------|
| Physical state and appearance | Liquid | Odor | Not available |
| PH (1% soln/water) | Not available | Taste | Not available |
| Odor threshold | Not available | Color | White Opaque |
| Volatility | Not available | | |
| Melting/Sublimation point | Not available | | |
| Boiling/Condensation point | Not available | | |
| Specific gravity (Water=1) | Not available | | |
| Vapor density | Not available | | |
| Vapor pressure | Not available | | |
| Water/oil dist. Coeff. | The product is much more soluble in water | | |
| Ionicity (surface active agent) | Not available | | |
| Critical temperature | Not available | | |
| Instability temperature | Not available | | |
| Conditions of instability | Not additional remark. | | |
| Dispersion properties | See solubility in water, methanol, diethyl ether. | | |
| Solubility | Not available | | |

Section 5: Fire and Explosion Data

| | |
|-------------------------------|---|
| The product is: | Not available |
| Auto-ignition temperature | Not available |
| Fire degradation products | Not available |
| Flash points | Not available |
| Flammable limits | Not available |
| Fire extinguishing procedures | Not available |
| Flammability | Non-flammable in presence of open flames and sparks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of moisture. |
| Risks of explosion | <p>Risks of explosion of the product in presence of mechanical impact: Not available.</p> <p>Risks of explosion of the product in presence of static discharge: Not available.</p> <p>No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.</p> |

Section 6: Reactivity Data

| | |
|----------------------------|--|
| Stability | The product is stable. |
| Hazardous decomp. products | Not available |
| Degradability | Not available |
| Product of degradation | Not available. |
| Corrosivity | No specific information is available in our database regarding the corrosivity of this product in presence of various materials. |
| Reactivity | No known incompatibilities. |


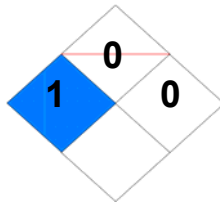
Section 7: Toxicological Properties

| | |
|---------------------------|--|
| Routes of entry | Accidental injection. |
| TLV | Not available |
| Toxicity for animals | LD50: Not available LC50: Not available |
| Environmental hazards | Not available |
| Chronic effects on humans | Carcinogenic Effects: Classified A2 (Suspected for human.) by ACGIH [Formaldehyde]. Mutagenic Effects: Not available. Teratogenic Effects: Not available. Developmental Toxicity: PROVEN [Formaldehyde] |
| Acute effects on humans | Not for human use. Animal inoculation only, accidental injection to humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs. |

Section 8: Preventive Measures

| | |
|----------------------|---|
| Waste information | Dispose of in accordance with all laws. |
| Waste stream | Not available |
| Storage | Store at 35-45 degrees F. Do not freeze. |
| Precautions | Read and follow all label directions. |
| Small spill and leak | Absorb with an inert material and place in an appropriate waste disposal container. For formaldehyde, neutralize with sodium bisulfite. |
| Large spill and leak | No additional information. |
| Protective Clothing | Splash goggles |

Section 9: Classification

| | | | | | | | | | | |
|-------------------------------|---|---|---------------|---|-------------|---|------------|---|---------------------|---|
| DOT | Not a DOT controlled material (United States). |  | | | | | | | | |
| Maritime transportation | Not available | | | | | | | | | |
| HCS | Not an HCS controlled material in USA. | | | | | | | | | |
| Federal and State Regulations | Not applicable | | | | | | | | | |
| HMIS (U.S.A.) | <table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr><tr><td>Personal Protection</td><td>n</td></tr></table> <div><div>National Fire Protection Association (U.S.A.)</div><div><div>Fire Hazard Reactivity Specific hazard</div></div></div> | | Health Hazard | 1 | Fire Hazard | 0 | Reactivity | 0 | Personal Protection | n |
| Health Hazard | 1 | | | | | | | | | |
| Fire Hazard | 0 | | | | | | | | | |
| Reactivity | 0 | | | | | | | | | |
| Personal Protection | n | | | | | | | | | |

Section 10: Protective Measures

| | |
|----------------------|--------------------------------------|
| Protective clothing | Splash goggles |
| Engineering controls | No special ventilation requirements. |

Section 11: Other Information

| | |
|-------------------------------|---------------|
| References | Not available |
| Validated by Company: 3/22/05 | |

CALL 1(800) 821-7467

Emergency Medical: (800)530-5432

Chemtrec: (800)424-9300

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MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Elite® 9

Product No.: Not applicable

MSDS ID#: B4465.20

GHS Product Identifier: Not applicable

Molecular Formula: Mixture, not applicable

Molecular Weight: Mixture, not applicable

CAS Number: Mixture, not applicable

Chemical Family: Vaccine

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: Recommended for the
vaccination of healthy, susceptible dairy and
beef cattle of all ages, including pregnant
cattle and veal calves, as an aid in the
reduction of diseases caused by Bovine
Rhinitracheitis (IBR) virus, Bovine Virus
Diarrhea (BVD) Type 1 virus, Parainfluenza₃
(PI₃) virus, and Bovine Respiratory Syncytial
virus (BRSV), and *Leptospira canicola*, *L.*
grippotyphosa, *L. hardjo*, *L.*
icterohaemorrhagiae, and *L. pomona*.

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Killed virus and deactivated bacterin in a liquid saline solution, packaged in
50mL bottle.

Color: White opaque.

Odor: No data available

**WARNING!**

Allergic reactions can occur.

For use in cattle only.

Not for human use.

Precautionary Statements

Keep only in original container.

Keep at a temperature between 2 - 7°C.

Do not freeze.

Accidental human injection can cause serious local reactions or anaphylactic reaction and systemic effects.

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 incinerate.

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.

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 mild transient eye irritation.

Skin Contact: Not expected to be a hazard to the skin. Can cause hypersensitive reactions. May cause skin sensitization by contact.

Ingestion: Not expected to be an ingestion hazard with prescribed use. Ingestion may cause nausea and systemic effects.

Injection: Swelling at injection site may occur.

Chronic Health Effects: Possible hypersensitization (development of abnormal sensitivity).

Target Organ(s): Skin

OSHA Regulatory Status: Non-hazardous (Exempt)

Environment: No data available

3 COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | CAS- No. | Concentration | Classification | Notes |
|--|--------|----------|---------------|----------------|-------|
| Bovine Rhinotracheitis Virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| Bovine Virus Diarrhea – Type 1 (Killed) | ---- | ---- | proprietary | ---- | --- |
| Parainfluenza Type 3 Virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| Bovine Respiratory Syncytial virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira canicola</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira grippotyphosa</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira hardjo</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira icterohaemorrhagiae</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira pomona</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |

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

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: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation or rash occurs, seek medical advice. Wash contaminated clothing before reuse.

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 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

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.

Storage: Store at 2°-7° C (35°-45° F). Do not freeze. Store out of direct sunlight to protect product integrity. Shake well before using.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: None Established

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.

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 |
|----------|---|

Color: White opaque.

Odor: No data available

Odor Threshold: No data available

Physical State: Killed virus and deactivated bacterin in a liquid saline solution, packaged in 50mL bottle.

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: Temperatures below 2° C (35° F)

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Elite® 9 is considered non-toxic.

Specified Substances

Acute Toxicity: No data available

Chronic Toxicity – Possible hypersensitization (development of abnormal sensitivity).

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: Not applicable.

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: Non-controlled, Exempt

Inventory Status

This material is **not** listed on the following inventories: TSCA, DSL, AICS, EINECS, IECSC, ENCS, PICCS, KECI, and NZIoC. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use.

Canada CEPA Schedule 1 – None listed

US Regulations

FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED VETERINARIANS.

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 Substances (40 CFR 355, Appendix A): None listed.

Section 311/312 (40 CFR 370): Not Regulated.

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

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): None listed.

Massachusetts Right-To-Know List: None listed.

Minnesota Hazardous Substances List: None listed.

New Jersey Right-To-Know List: None listed.

Pennsylvania Right-To-Know List: None listed.

Rhode Island Right-To-Know List: None listed.

European Regulations

Austria MAK List (Annex I): None listed.

Denmark (Annex 3.6): None listed.

Germany (Dangerous Substances Ordinance 2004, Annex III): None listed.

Norway (List of Dangerous Substance): None listed.

Sweden (Annex 3): None listed.

Switzerland (Toxins List 1): None listed.

| | |
|-----------|--------------------------|
| 16 | OTHER INFORMATION |
|-----------|--------------------------|

Hazard Ratings

| | Health Hazard | Fire Hazard | Reactivity Hazard |
|-------------|---------------|-------------|-------------------|
| HMIS | 1 | 1 | 0 |

| | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
|-------------|---------------|-------------|-------------------|----------------|
| NFPA | 1 | 1 | 0 | N/A |

* – 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.

N/A – Not applicable

N/E – Not established

pph – parts per hour

References:

1. Elite® 9 MSDS and Label
2. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
3. GHS Manual

Prepared by: Boehringer Ingelheim Vetmedica, Inc.

Issue Date: 10/12/2011

Revision Information: New

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MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Elite® 9
Product No.: Not applicable
MSDS ID#: B4465.20
GHS Product Identifier: Not applicable

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

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: Recommended for the
vaccination of healthy, susceptible dairy and
beef cattle of all ages, including pregnant
cattle and veal calves, as an aid in the
reduction of diseases caused by Bovine
Rhinitracheitis (IBR) virus, Bovine Virus
Diarrhea (BVD) Type 1 virus, Parainfluenza₃
(PI₃) virus, and Bovine Respiratory Syncytial
virus (BRSV), and *Leptospira canicola*, *L.*
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2 HAZARDS IDENTIFICATION

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50mL bottle.
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Do not freeze.

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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 incinerate.

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.

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 mild transient eye irritation.

Skin Contact: Not expected to be a hazard to the skin. Can cause hypersensitive reactions. May cause skin sensitization by contact.

Ingestion: Not expected to be an ingestion hazard with prescribed use. Ingestion may cause nausea and systemic effects.

Injection: Swelling at injection site may occur.

Chronic Health Effects: Possible hypersensitization (development of abnormal sensitivity).

Target Organ(s): Skin

OSHA Regulatory Status: Non-hazardous (Exempt)

Environment: No data available

3 COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | CAS- No. | Concentration | Classification | Notes |
|--|--------|----------|---------------|----------------|-------|
| Bovine Rhinotracheitis Virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| Bovine Virus Diarrhea – Type 1 (Killed) | ---- | ---- | proprietary | ---- | --- |
| Parainfluenza Type 3 Virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| Bovine Respiratory Syncytial virus (Killed) | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira canicola</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira grippotyphosa</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira hardjo</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
| <i>Leptospira icterohaemorrhagiae</i> , bacterin - deactivated | ---- | ---- | proprietary | ---- | --- |
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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. If skin irritation or rash occurs, seek medical advice. Wash contaminated clothing before reuse.

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 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

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.

Storage: Store at 2°-7° C (35°-45° F). Do not freeze. Store out of direct sunlight to protect product integrity. Shake well before using.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: None Established

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.

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 |
|----------|---|

Color: White opaque.

Odor: No data available

Odor Threshold: No data available

Physical State: Killed virus and deactivated bacterin in a liquid saline solution, packaged in 50mL bottle.

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: Temperatures below 2° C (35° F)

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Elite® 9 is considered non-toxic.

Specified Substances

Acute Toxicity: No data available

Chronic Toxicity – Possible hypersensitization (development of abnormal sensitivity).

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: Not applicable.

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: Non-controlled, Exempt

Inventory Status

This material is **not** listed on the following inventories: TSCA, DSL, AICS, EINECS, IECSC, ENCS, PICCS, KECI, and NZIoC. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use.

Canada CEPA Schedule 1 – None listed

US Regulations

FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED VETERINARIANS.

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 Substances (40 CFR 355, Appendix A): None listed.

Section 311/312 (40 CFR 370): Not Regulated.

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

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): None listed.

Massachusetts Right-To-Know List: None listed.

Minnesota Hazardous Substances List: None listed.

New Jersey Right-To-Know List: None listed.

Pennsylvania Right-To-Know List: None listed.

Rhode Island Right-To-Know List: None listed.

European Regulations

Austria MAK List (Annex I): None listed.

Denmark (Annex 3.6): None listed.

Germany (Dangerous Substances Ordinance 2004, Annex III): None listed.

Norway (List of Dangerous Substance): None listed.

Sweden (Annex 3): None listed.

Switzerland (Toxins List 1): None listed.

16 OTHER INFORMATION**Hazard Ratings**

| | Health Hazard | Fire Hazard | Reactivity Hazard |
|------|---------------|-------------|-------------------|
| HMIS | 1 | 1 | 0 |

| | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
|------|---------------|-------------|-------------------|----------------|
| NFPA | 1 | 1 | 0 | N/A |

* – 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.

N/A – Not applicable

N/E – Not established

pph – parts per hour

References:

1. Elite® 9 MSDS and Label
2. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
3. GHS Manual

Prepared by: Boehringer Ingelheim Vetmedica, Inc.

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