



## MATERIAL SAFETY DATA SHEET

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Calvenza™ EIV (Killed Virus)

**Product No.:** Not applicable

**MSDS ID#:** 1505.21

**GHS Product Identifier:** Not applicable

**Synonyms:**

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): (866) 638-2226

**Intended Use:** For the vaccination of healthy, susceptible horses 6 months of age or older, including pregnant mares, as an aid in the reduction of respiratory disease caused by equine influenza types A<sub>1</sub> and A<sub>2</sub> viruses.

**Non-emergency Telephone:** (800) 821-7467

### 2 HAZARDS IDENTIFICATION

**Emergency Overview**

**Physical State:** Solution of inactivated virus supplied in high density plastic bottles.

**Color:** Opaque

**Odor:** No data available



**WARNING!**

**For use in horses only.**

**Not for human use.**

**Allergic reactions can occur.**

**Precautionary Statements:**

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

Keep only in original container.

Keep at a temperature between 2 - 7° C.

Do not freeze.

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 incinerate.

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.

**Description:** Recommended for the vaccination of healthy, susceptible horses 6 months of age or older, including pregnant mares, as an aid in the reduction of respiratory disease caused by equine influenza types A<sub>1</sub> and A<sub>2</sub> viruses.

Shake well before use. Use entire contents when first opened. Using aseptic technique, inoculate horses intramuscularly with a 2 mL dose. Administer a second 2 mL dose intramuscularly in 3-4 weeks using a different injection site. Administer a third 2 mL dose in 3-4 weeks by either the intramuscular or intranasal route. Revaccinate annually and prior to anticipated exposure, by either the intramuscular or intranasal route.

**Acute effect:** Rarely, severe allergic reactions may occur that require immediate veterinary care. Antidote: Epinephrine.

**Precautions/Contraindications:** Do not vaccinate within 21 days before slaughter.

**Overdosage:** None known.

**ADVERSE REACTIONS TO PRODUCT:** Anaphylactoid reactions may occur following use.

**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):** Cardiovascular system, respiratory system, skin

**Potential Physical Effects:** Can cause skin sensitization.

**OSHA Regulatory Status:** Nonhazardous

**Environment:** No data available

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS- No.	Concentration	Classification	Notes
Inactivated equine influenza virus	----	----	proprietary	----	---
Gentamicin	----	----	proprietary	----	---
Thimerosal (merthiolate)	----	54-64-8	< 0.01	T+; N R26/27/28, R33, R50/53	---

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 use in horses only. Not for human use. Status of immunization should be reviewed. Emergency procedures should be symptomatic and supportive.

**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, mercury

**Flammability Class:** 0

**6 ACCIDENTAL RELEASE MEASURES**

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

**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. Incinerate. For large liquid spill: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Incinerate.

**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:** Store at 2°-7° C (35°-45° F). Do not freeze. Shake well before using.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**For Industrial Exposures:**

**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: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**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 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:** Opaque

**Odor:** No data available

**Odor Threshold:** No data available

**Physical State:** Solution of inactivated virus supplied in high density plastic bottles.

**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.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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Calvenza™ EIV (Killed Virus) is considered nontoxic.

**Listed Carcinogens:** None

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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**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

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**General Information:** Dispose of in accordance with local, state, federal, national or international regulations.

**Disposal Methods:** Incinerate containers and unused contents. 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

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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**DOT:** Not regulated

**TDG:** Not regulated

**ADR/RID:** Not regulated

**IATA:** Not regulated

**IMDG:** Not regulated

<b>15</b>	<b>REGULATORY INFORMATION</b>
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**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 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. In the United States, this product is regulated by the USDA Animal and Plant Health Inspection Service (APHIS).

**Canada CEPA Schedule 1** – Mercury compounds

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):** None

**SARA Title III**

**Section 302**Extremely Hazardous Substance (40 CFR 355, Appendix A): None

**Section 311/312 (40 CFR 370):** None

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

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

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

**State Regulations**

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

Mercury and mercury compounds

**Massachusetts Right-To-Know List:** None

**Minnesota Hazardous Substances List:** None

**New Jersey Right-To-Know List:** None

**Pennsylvania Right-To-Know List:** None

**Rhode Island Right-To-Know List:** None

**European Regulations**

**Austria MAK List (Annex I):** None

**Denmark (Annex 3.6, April 2005):** None

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

**Norway (List of Dangerous Substance):** None

**Sweden (Sensitizers- Annex 3):** None

**Switzerland (Toxins List 1):** None

<b>16</b>	<b>OTHER INFORMATION</b>
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**Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard
<b>HMIS</b>	1	0	0

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
<b>NFPA</b>	1	0	0	N/A

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

**R and S Phrase Definitions**

T+ - Very toxic.

N - Dangerous for the environment.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

R33 - Danger of cumulative effects.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S(1/2) - Keep locked up and out of reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S28 - After contact with skin, wash immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

**ABBREVIATIONS:**

BIV - Boehringer Ingelheim Vetmedica, Inc.

N/A - Not applicable

N/E - Not established

pph - parts per hour

**References:**

1. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
2. GHS Manual
3. Calvenza™ EIV (Killed Virus) Label

**Prepared by:** Boehringer Ingelheim Vetmedica, Inc.

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