SAFETY DATA SHEETS

This SDS packet was issued with item: 078377840

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078377287

Boehringer Ingelheim

MATERIAL SAFETY DATA SHEET

1

PRODUCT AND COMPANY IDENTIFICATION

Product Name: Express[™] 5 Product No.: Not applicable MSDS ID#: B1181.20 GHS Product Identifier: Not applicable

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 **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 vaccination of healthy, susceptible cattle as an aid in the reduction of respiratory diseases caused by Infectious Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza 3 (PI₃) virus and Bovine Respiratory Syncytial Virus (BRSV).

HAZARDS IDENTIFICATION

Emergency Overview

2

Physical State: Lyophilized modified live virus is supplied in a glass vial and a solution of diluent is supplied in a high density plastic bottle.Color: White opaqueOdor: No data available



DANGER! Contains a component that may cause target organ damage. Allergic reactions can occur. In vaccines, chronic exposure potential is not expected. For use in cattle only. Not for human use.

Prevention: Do not breathe fume/mist/vapors/spray.

Response:

Get medical advice/attention if you feel unwell.

Disposal:

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

Additional 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). Contains thimerosal. Thimerosal is an organic mercury compound preservative found in vaccines. Long-term exposure to mercury compounds may cause damage to the nervous system. In vaccines, the chronic exposure potential is negligible.

Target Organ(s): Skin

3

OSHA Regulatory Status: Hazardous (Exempt)

Environment: No data available

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS- No.	Concentration	Classification	Notes
Bovine Rhinotracheitis Virus (modified live)			proprietary		
Bovine Virus Diarrhea – Type 1 and 2 (modified live)			proprietary		
Bovine Respiratory Syncytial Virus (modified live)			proprietary		
Parainfluenza Type 3 (modified live)			proprietary		
Thimerosal	200-210-4	54-64-8	0.1%	T+; N R26/27/28, R33, R50/53	*

* Used to inactivate virus and subsequently removed from solution. Concentration represents maximum remaining amount by percent weight which is below USDA allowable limits.

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

8

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 $2^{\circ}-7^{\circ}$ C ($35^{\circ}-45^{\circ}$ F). Do not freeze. Store out of direct sunlight to protect product integrity. Shake well before using.

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:** Lyophilized modified live virus is supplied in a glass vial and a solution of diluent is supplied in a high density plastic bottle. **pH:** 6.5 – 7.5 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

STABILITY AND REACTIVITY

Stability: Stable

10

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

Express[™] 5 is considered non-toxic.

Specified Substances

Acute Toxicity

Chemical Name	Test Results
Thimerosal	Oral LD50 (rat): 75 mg/kg

Chronic Health Effects: Possible hypersensitization (development of abnormal sensitivity). Contains thimerosal. Thimerosal is an organic mercury compound preservative found in vaccines. Long-term exposure to mercury compounds may cause damage to the nervous system. In vaccines, the chronic exposure potential is negligible.

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: Thimerosal: ID No: 872; Class 3: severely 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 **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 – Mercury

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):

Acute (Immediate)	Χ	Chronic	Fire	Reactive	Pressure
		(Delayed)			Generating

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

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Thimerosal – Developmental toxin Massachusetts Right-To-Know List: Organo(alkyl) mercury Minnesota Hazardous Substances List: Organo(alkyl) mercury New Jersey Right-To-Know List: Mercury, alkyl compounds Pennsylvania Right-To-Know List: None listed. Rhode Island Right-To-Know List: Mercury, alkyl compounds

European Regulations

Austria MAK List (Annex I): Mercury, alkyl compounds Denmark (Annex 3.6): None listed. Germany (Dangerous Substances Ordinance 2004, Annex III): Mercury Compounds Norway (List of Dangerous Substance): Organo(alkyl) mercury 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:

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.

ABBREVIATIONS:

BIV – Boehringer Ingelheim Vetmedica, Inc.

N/A - Not applicable

N/E – Not established

pph – parts per hour

References:

- 1. Express[™] 5 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:** 09/19/2011 **Revision Information:** New **Disclaimer:** The information provided herein is offered by Boehringer Ingelheim Vetmedica, Inc. ("BIV") in good faith as accurate as of the date hereof, but without guarantee. This information includes information which has been generated by other parties and provided to BIV, and which BIV has not independently verified. The information provided herein relates only to the specific product designated, and may not be valid where such product is used in combination with any other materials or in any process. The information provided herein is offered solely for your consideration, investigation and verification, and Boehringer Ingelheim Vetmedica, Inc. ("BIV") expressly disclaims all liability for reliance thereon. BIV EXPRESSLY DISCLAIMS ALL WARRANTIES OF EVERY KIND AND NATURE (INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. In addition, since the conditions of use and suitability of the product for particular uses are beyond BIV's control, ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER, AND BIV EXPRESSLY DISCLAIMS ANY AND ALL LIABILITY AS TO ANY RESULTS OBTAINED OR ARISING FROM ANY USE OF THE PRODUCT. Use or transmission of the information contained herein in any other format than the format as presented is strictly prohibited. Nothing herein shall be construed as permission or recommendation for the use of the product in a manner that might infringe an existing patent. BIV neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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Boehringer Ingelheim

MATERIAL SAFETY DATA SHEET

1

PRODUCT AND COMPANY IDENTIFICATION

Product Name: Express[™] 5 Product No.: Not applicable MSDS ID#: B1181.20 GHS Product Identifier: Not applicable

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 **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 vaccination of healthy, susceptible cattle as an aid in the reduction of respiratory diseases caused by Infectious Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza 3 (PI₃) virus and Bovine Respiratory Syncytial Virus (BRSV).

HAZARDS IDENTIFICATION

Emergency Overview

2

Physical State: Lyophilized modified live virus is supplied in a glass vial and a solution of diluent is supplied in a high density plastic bottle.Color: White opaqueOdor: No data available



DANGER! Contains a component that may cause target organ damage. Allergic reactions can occur. In vaccines, chronic exposure potential is not expected. For use in cattle only. Not for human use.

Prevention: Do not breathe fume/mist/vapors/spray.

Response:

Get medical advice/attention if you feel unwell.

Disposal:

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

Additional 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). Contains thimerosal. Thimerosal is an organic mercury compound preservative found in vaccines. Long-term exposure to mercury compounds may cause damage to the nervous system. In vaccines, the chronic exposure potential is negligible.

Target Organ(s): Skin

3

OSHA Regulatory Status: Hazardous (Exempt)

Environment: No data available

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS- No.	Concentration	Classification	Notes
Bovine Rhinotracheitis Virus (modified live)			proprietary		
Bovine Virus Diarrhea – Type 1 and 2 (modified live)			proprietary		
Bovine Respiratory Syncytial Virus (modified live)			proprietary		
Parainfluenza Type 3 (modified live)			proprietary		
Thimerosal	200-210-4	54-64-8	0.1%	T+; N R26/27/28, R33, R50/53	*

* Used to inactivate virus and subsequently removed from solution. Concentration represents maximum remaining amount by percent weight which is below USDA allowable limits.

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

8

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 $2^{\circ}-7^{\circ}$ C ($35^{\circ}-45^{\circ}$ F). Do not freeze. Store out of direct sunlight to protect product integrity. Shake well before using.

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:** Lyophilized modified live virus is supplied in a glass vial and a solution of diluent is supplied in a high density plastic bottle. **pH:** 6.5 – 7.5 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

STABILITY AND REACTIVITY

Stability: Stable

10

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

Express[™] 5 is considered non-toxic.

Specified Substances

Acute Toxicity

Chemical Name	Test Results
Thimerosal	Oral LD50 (rat): 75 mg/kg

Chronic Health Effects: Possible hypersensitization (development of abnormal sensitivity). Contains thimerosal. Thimerosal is an organic mercury compound preservative found in vaccines. Long-term exposure to mercury compounds may cause damage to the nervous system. In vaccines, the chronic exposure potential is negligible.

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: Thimerosal: ID No: 872; Class 3: severely 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

<u>DOT</u>: 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 **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 – Mercury

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):

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

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

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Thimerosal – Developmental toxin Massachusetts Right-To-Know List: Organo(alkyl) mercury Minnesota Hazardous Substances List: Organo(alkyl) mercury New Jersey Right-To-Know List: Mercury, alkyl compounds Pennsylvania Right-To-Know List: None listed. Rhode Island Right-To-Know List: Mercury, alkyl compounds

European Regulations

Austria MAK List (Annex I): Mercury, alkyl compounds Denmark (Annex 3.6): None listed. Germany (Dangerous Substances Ordinance 2004, Annex III): Mercury Compounds Norway (List of Dangerous Substance): Organo(alkyl) mercury 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:

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.

ABBREVIATIONS:

BIV – Boehringer Ingelheim Vetmedica, Inc.

N/A - Not applicable

N/E – Not established

pph – parts per hour

References:

- 1. Express[™] 5 MSDS and Label
- 2. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
- 3. GHS Manual

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