



# SAFETY DATA SHEET

Item# 058651  
058652, 058653  
Verified 2/10/17

## 1. Identification

**Product identifier** Titanium® 5 L5 HB

**Other means of identification**

**Item Code** AV4145

**Synonyms** Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3-Respiratory Syncytial Virus Vaccine (Modified Live Virus) Leptospira Canicola-Grippotyphosa-Hardjo-Icterohaemorrhagiae- Pomona Bacterin

**Recommended use** Veterinary Vaccine

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

Diamond Animal Health, Inc.  
Des Moines, Iowa 50327 USA

**Distributor:**

**Company Name** Elanco Animal Health  
2500 Innovation Way  
Greenfield, IN 46140 USA

**Phone:** 1-877-Elanco1 (1-877-352-6261)

**Emergency Telephone Numbers:** Elanco Product Technical Support / Human or Animal Exposure Reporting  
1-888-545-5973  
Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300

**Email:** lilly\_msds@lilly.com

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement**

**Prevention** Not assigned.

**Response** Not assigned.

**Storage** Not assigned.

**Disposal** Not assigned.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** In the event of accidental injection, an allergic reaction may occur.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
IBR-BVD-PI3-BRSV	Titanium® 5	N/A	*
Leptospira Canicola-Grippotyphosa-Hardjo-Icter ohaemorrhagiae-Pomona Bacterin	Lepto 5	N/A	*

**Composition comments** \* The components are not hazardous or are below required disclosure limits.  
This product contains 2 components.  
Solid: (Titanium 5) Contains no preservatives.  
Liquid: (Lepto 5) Contains thimerosal (0.001%) as a preservative.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Ingestion** If conscious, give the victim plenty of water to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions. Consult a physician.

**Most important symptoms/effects, acute and delayed** In the event of accidental injection, an allergic reaction may occur.

**Indication of immediate medical attention and special treatment needed** Treat symptomatically.

**General information** NOT FOR HUMAN USE!

#### 5. Fire-fighting measures

**Suitable extinguishing media** Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable extinguishing media** Not available.

**Specific hazards arising from the chemical** Fire or excessive heat may produce hazardous decomposition products.

**Special protective equipment and precautions for firefighters** Wear self-contained breathing apparatus and protective clothing.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Avoid contact with skin, eyes and clothing. Wear suitable protective clothing, gloves and eye/face protection.

**Methods and materials for containment and cleaning up** Avoid the generation of dusts during clean-up. Clean contaminated surface thoroughly. Flush with plenty of water. Soak up with inert absorbent material. Transfer to a container for disposal. For waste disposal, see Section 13 of the SDS.

**Environmental precautions** Avoid release to the environment.

#### 7. Handling and storage

**Precautions for safe handling** Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid breathing mists or aerosols of this product.

**Conditions for safe storage, including any incompatibilities** Store at: 2 - 8 C. Do not allow material to freeze. Do not store in open or unlabelled containers. Use entire contents when first opened.

#### 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** General ventilation normally adequate.

**Individual protection measures, such as personal protective equipment**

- Eye/face protection** Safety glasses with side-shields.
- Skin protection**

  - Hand protection** Chemical resistant gloves.
  - Other** Chemical-resistant gloves and impermeable body covering to minimize skin contact.

<b>Respiratory protection</b>	In case of inadequate ventilation, use respiratory protection. (i.e. product breakage) Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	Wash hands after handling.

## 9. Physical and chemical properties

<b>Appearance</b>	Liquid in vial or syringe (Lepto 5) Dessicated solid in vial (Titanium 5)
<b>Physical state</b>	Solid, Liquid.
<b>Form</b>	Dessicated solid with diluent.
<b>Color</b>	No data available.
<b>Odor</b>	No data available.
<b>Odor threshold</b>	No data available.
<b>pH</b>	No data available.
<b>Melting point/freezing point</b>	No data available.
<b>Initial boiling point and boiling range</b>	No data available.
<b>Flash point</b>	No data available.
<b>Evaporation rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No test data available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	No data available.
<b>Flammability limit - upper (%)</b>	No data available.
<b>Explosive limit - lower (%)</b>	No data available.
<b>Explosive limit - upper (%)</b>	No data available.
<b>Vapor pressure</b>	No data available.
<b>Vapor density</b>	No data available.
<b>Relative density</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	No data available.
<b>Other information</b>	
<b>Density</b>	No data available.
<b>Explosive properties</b>	No data available.
<b>Oxidizing properties</b>	No data available.
<b>Percent volatile</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid high temperatures. Do not allow material to freeze.
<b>Incompatible materials</b>	Strong oxidizing agents.

**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions..

## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** Based on the nature of this substance and the known health effects of the components, this preparation is considered unlikely to produce health effects through relevant routes of occupational exposures. In the event of accidental injection, an allergic reaction may occur.

**Skin corrosion/irritation** No data available.

**Serious eye damage/eye irritation** No data available.

**Respiratory or skin sensitization**

**Respiratory sensitization** No data available.

**Skin sensitization** No data available.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** No data available to indicate product or any components present at greater than 0.1% are carcinogenic.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** No data available.

**Specific target organ toxicity - single exposure** No data available.

**Specific target organ toxicity - repeated exposure** No data available.

**Aspiration hazard** No aspiration toxicity classification

**Further information** The active components of this vaccine are not considered to be pathogenic for healthy individuals even if inhaled, ingested or applied to the eyes or skin.

## 12. Ecological information

**Ecotoxicity** These materials have not been tested for environmental effects. Ecological injuries are not known or expected under normal use.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available for this product.

**Mobility in soil** No data available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Containers and unused contents should be burned under controlled conditions. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

### US federal regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act (SDWA)

Not regulated.

### US state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. Massachusetts RTK - Substance List

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

Not Listed.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date 02-26-2014

Revision date 02-17-2015

Version # 02

### List of abbreviations

IBR-BVD-PI3-BRSV

:

Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3-Respiratory Syncytial Virus Vaccine (Modified Live Virus)

**Disclaimer**

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

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**Revision Information**

Composition / Information on Ingredients: Undisclosed Ingredient Statement  
Composition/information on ingredients: Composition comments  
Stability and reactivity: Hazardous decomposition products  
Toxicological information: Carcinogenicity  
Ecological information: Ecotoxicity