SAFETY DATA SHEETS

This SDS packet was issued with item:

078920418

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

078919236 078920417

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).

078392830 078393673



SAFETY DATA SHEET

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

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: elanco_sds@elanco.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.

Material name: Titanium® 5 L5 HB

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-Icte rohaemorrhagiae-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.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact

attention if irritation develops and persists.

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under Eye contact

the eyelids, for at least 15 minutes. Get medical attention.

If conscious, give the victim plenty of water to drink. Never give anything by mouth to a victim who Ingestion

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.

Not available.

General information NOT FOR HUMAN USE!

5. Fire-fighting measures

Suitable extinguishing media

Water. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

Fire or excessive heat may produce hazardous decomposition products.

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

Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands Precautions for safe handling

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 **Biological limit values**

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

No biological exposure limits noted for the ingredient(s).

Appropriate engineering General ventilation normally adequate. controls

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Material name: Titanium® 5 L5 HB

SDS US

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.

Respiratory protection In case of inadequate ventilation, use respiratory protection. (i.e. product breakage)

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Select appropriate respirator for physical

characteristics of material. Select respirator with appropriate protection factor.

Thermal hazards Not available.

General hygiene Wash hands after handling

considerations

9. Physical and chemical properties

Appearance Liquid in vial or syringe (Lepto 5)

Dessicated solid in vial (Titanium 5)

Physical state Solid, Liquid.

Form Dessicated solid with diluent.

Color
No data available.

Odor hreshold
No data available.

range

Flash point

No data available.

Evaporation rate

No data available.

Flammability (solid, gas)

No test data available.

Upper/lower flammability or explosive limits

Flammability limit - lower

No data available.

(%)

Flammability limit - upper

(%)

No data available.

Explosive limit - lower (%) No data available.

Explosive limit - upper (%) No data available.

Vapor pressure No data available.

Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water)

No data available.

Partition coefficient

No data available.

(n-octanol/water)

Auto-ignition temperature

No data available.

Pecomposition temperature

No data available.

No data available.

Other information

DensityNo data available.Explosive propertiesNo data available.Oxidizing propertiesNo data available.Percent volatileNo data available.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

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Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid high temperatures. Do not allow material to freeze.

Incompatible materials
Hazardous decomposition

Strong oxidizing agents.

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

No data available.

irritation

Respiratory or skin sensitization

Respiratory sensitizationNo 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.

CarcinogenicityNo data available to indicate product or any components present at greater than 0.1% are

carcinogenic.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

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 informationThe 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 instructionsContainers 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.

Material name: Titanium® 5 L5 HB SDS US

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

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 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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.

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
 09-06-2019

Version # 04

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 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:

Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441

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