

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: Lepto 4-Way

Product Use: For the vaccination of cattle against Leptospirosis caused

by L. borgpetersenii serovar Hardjo (Hardjobovis) and L. interrogans serovars Copenhageni and Pomona. To prevent the shedding in urine of these serovars, and thus reduce

the risk of human Leptospirosis infection.

Also contains Leptospira borgpetersenii Tarassovi which can

be expected to provide an immune response against

Tarassovi and Tarassovi-like strain "Pacifica". A reduction in urine shedding of these serovars is also expected, thus further reducing the risk of human Leptospirosis infection.

Restriction of Use: Refer to Section 15

New Zealand Supplier: Virbac New Zealand Limited

Address: 26 – 30 Maui Street

Pukete, Hamilton

Telephone: +64 7 849 6782

Customer Service Toll no: 0800 VIRBAC (0800 847 222) (Mon-Fri 8:30am to 4:30pm)

Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 11 October 2023

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Thiomersal	< 0.05g/L	54-64-8
Phosphate buffer solution*		Not applicable

^{*}containing:

Leptospira interrogans serovar Hardjo formol culture

Leptospira interrogans serovar Pomona formol culture

Leptospira interrogans serovar Icterohaemorraghiae formol culture

Leptospira borgpetersenii serovar Tarassovi formol culture

Note: The exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

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Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. If eye irritation persists:

Get medical advice/attention.

If on Skin Wash skin immediately with water. In case of irritation, seek medical

advice.

If Swallowed If product is swallowed or gets in mouth wash mouth with water. If

symptoms develop, or if in doubt contact a Poisons Information Centre or

a doctor.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Hazard Type	Non Flammable
Hazards from	None known.
products	
Suitable	Carbon dioxide, extinguishing powder or water spray.
Extinguishing	
media	
Precautions for	Wear self-contained breathing apparatus (SCBA) and protective gloves.
firefighters and	
special protective	
clothing	
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear sufficient respiratory protection where necessary and protective clothing to minimize skin exposure. Evacuate all non-essential personnel.

Prevent any material from entering drains or waterways.

If possible, contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material. Collect material and place into a suitable labeled container. Do not dilute material but contain.

Dispose of in compliance with local and/or national regulations as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Keep out of reach of children.

Precautions for Storage:

• Store away from incompatible materials listed in Section 10.

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- Store between 2°C and 8°C.
- Refrigerate. Do not freeze.
- Unused vaccine must be discarded within 30 days of opening.
- Protect from light and away from foodstuffs.
- Keep containers adequately sealed during material transfer, transport or not in use.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment

Eyes	Not required	
Skin	Wear protective gloves when handling.	
Respiratory	Not required.	
Hygiene	Keep away from eyes. Avoid accidental self-injection.	

Section 9 Physical and Chemical Properties

Appearance	Aqueous solution or suspension.	
Odour	Not available	
Odour Threshold	Not available	
pH	Not available	
Boiling Point	Not available	
Melting Point	Not available	
Freezing Point	Not available	
Flash Point	Not available	
Flammability	Not available	
Combustibility	Not available	
Upper and Lower	Not available	
Explosive Limits		
Vapour Pressure	Not available	
Vapour Density	Not available	
Specific Gravity	Not available	
Water Solubility	Soluble in water	
Partition Coefficient:	Not available	
Auto-ignition	Not available	
Temperature		
Decomposition	Not available	
Temperature		
Kinematic Viscosity	Not available	
Particle Characteristics	Not available	

Section 10. Stability and Reactivity

Product Name: **Lepto 4-Way** SDS Prepared by: Virbac New Zealand Ltd

Stability of Substance	Stable under normal storage conditions.	
Possibility of hazardous	No data available.	
reactions		
Conditions to Avoid	Avoid high temperatures.	
Incompatible Materials	Avoid food products.	
Hazardous Decomposition	None known.	
Products		

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Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Ensure container is completely empty. If permitted under Local Authority Plans burn if circumstances, especially wind direction, permit otherwise crush & bury in an approved Local Authority facility. DO NOT use the container for any other purpose.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Product Name: **Lepto 4-Way** SDS Prepared by: Virbac New Zealand Ltd

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L
Emergency Response Plan	100L
Secondary Containment	100L
Restriction of Use	Only use for the intended purpose.
ACVM Approval No	A008314
See <u>www.foodsafety.govt.nz</u> for registration	
Conditions	

Section 16 Other Information

Glossary

Cat Category

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

Issue Date: 11 October 2023 Review Date: 11 October 2028

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