



SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Biobos IBR Marker Vaccine**
 Product Use: Vaccine for cattle containing inactivated Bovine herpesvirus type 1 (BoHV-1) For active immunisation of cattle to reduce intensity and duration of clinical symptoms caused by infection with Bovine herpesvirus type 1 (IBR) virus and to reduce excretion of the field virus.

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrihealth NZ Ltd**
 Address: Level 2, 89 Grafton Road,
 Auckland 1010

Telephone: +64 9 215 1199
Emergency No: 0800 764 766 (National Poisons Centre)

Date of SDS Preparation: 24 January 2024

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Veterinary Medicine (Limited Pack Size, Finished Dose) – HSR100757

Pictograms



Signal Word: **Warning**

GHS Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction
Carcinogenicity Cat. 2	H351	Suspected of causing cancer

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing mist, vapours or spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective clothing [as detailed in SDS Section 8]

Response Code	Response Statement
P302 + P352	IF ON SKIN: Wash with plenty of water
P308 + P313	IF exposed or concerned: Get medical advice/ attention
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash before reuse

Storage Code	Storage Statement
P405	Store locked up

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Thiomersal	0.01%	54-64-8
Hydrated Aluminium	0.3%	21645-51-2
Beta Propiolactone	0.1%	57-57-8
Non-hazardous ingredients	Bal to 100%	Proprietary

Section 4. First Aid Measures

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor, immediately. General: If medical advice is needed, have product container or label at hand. Wash exposed skin thoroughly after handling. Avoid breathing mist or spray,

Accidental self-injection:

Care should be taken to avoid accidental self-injection. If injection occurs, seek medical attention immediately. This product contains an adjuvant. Accidental self-injection may result in pain and swelling, particularly if injected into a joint or finger, and in rare cases could result in the loss of the affected finger if prompt medical attention is not given. If you are accidentally injected with this product, seek prompt medical advice even if only a very small amount is injected, and take the package leaflet with you. If pain persists for more than 12 hours after medical examination, seek medical advice again.

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed Wash out mouth thoroughly with water. Do not induce vomiting. Never give anything to the mouth of an unconscious person. Call the National Poisons Centre 0800 764 766 or a doctor/physician for advice.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable.
Inhalation: Not applicable.
Skin: May cause an allergic skin reaction.
Eye: Not applicable.
Chronic: Suspected of causing cancer.

Notes to Doctor: This product contains an adjuvant. Even if small amounts have been injected, accidental injection with this product may cause swelling, which may, for example, result in ischemic necrosis and even the loss of a digit. Expert, prompt, surgical attention is required and may necessitate early incision and irrigation of the injected area, especially where there is involvement of finger pulp or tendon.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	This material is assumed to be combustible. When heated to decomposition no toxic fumes are emitted
Suitable Extinguishing media	Water spray, dry powder, carbon dioxide, or foam
Precautions for firefighters and special protective clothing	Wear full protective clothing and self-contained breathing apparatus (SCBA)
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Restrict access to contaminated area.

Prevent further spillage, and prevent spilled material from flowing onto adjacent land or into Waterways.

Retrieve intact containers from site. Place damaged containers into containment devices. Clean the contaminated area with new sponges soaked in water. Place the spillage including sponges into sealable containers for disposal. Avoid contamination of water courses or sewers. Dispose of waste safely as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Avoid breathing mist, vapours or spray
- Contaminated work clothing should not be allowed out of the workplace
- Wash contaminated clothing before reuse
- Wear protective clothing [as detailed in SDS Section 8]
- Care should be taken to avoid self-injection
- Avoid contact with skin
- Wash hands and exposed skin before meals and after use
- Do not eat, drink or smoke while using

Precautions for Storage:

- Store away from incompatible materials listed in Section 10
- Store at 2 - 8°C
- Store in the original container away from direct heat or direct sunlight
- Do not freeze
- Keep out of reach of children
- Store locked up
- Store away from foodstuffs

Section 8	Exposure Controls / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
B-Propiolactone	[57-57-8]	0.5	1.5	-	-

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 APR 2022 13TH EDITION.

Engineering Controls

Ensure adequate ventilation. Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent contact with skin and eyes and prevent self-injection.

Personal Protection Equipment

Eyes	Not required
Hands	Wear protective gloves
Skin	Use protective clothing
Respiratory	Not required
General	Do not eat, drink or smoke when using this product. Wash hands with soap and water before breaks and after work. Keep away from foodstuffs and beverages

Section 9	Physical and Chemical Properties
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Appearance	Liquid containing sediment that can easily be shaken
Colour	Pinkish
Odour	Not available
Odour Threshold	Not available
pH	6.5 – 7.8
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available

Vapour Density	Not available
Density	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions and storage
Possibility of hazardous reactions	No data available
Conditions to Avoid	Avoid heat and light
Incompatible Materials	None known
Hazardous Decomposition Products	No data available

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable
Dermal	Not applicable
Inhalation	Not applicable
Eye	Not applicable
Skin	May cause an allergic skin reaction

Chronic Effects:

Carcinogenicity	Suspected of causing cancer
Reproductive Toxicity	Not applicable
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

Section 12. Ecotoxicological Information

This substance is not classified as ecotoxic.

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:

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility.

Precautions or methods to avoid: Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Veterinary Medicines (Limited pack size, Finished dose) Group Standard – **HSR100757**

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities (Schedule 26)	Not required
Signage Trigger Quantities (Schedule 3)	Not triggered
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Restriction of Use	Only use for the intended purpose

ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	A11239

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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 April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by AgriHealth NZ Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to AgriHealth NZ Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While AgriHealth NZ Ltd have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, AgriHealth NZ Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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