



SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Biobos RCC**Pack size: 100mL, 250mL

Product Use: Vaccine for cattle containing inactivated Bovine Rotavirus,

Bovine Coronavirus, and E.coli expressing F5 (K99) adhesin

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: 21 February 2024

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	Each 2mL dose contains	CAS NUMBER.
Inactivated E. coli expressing F5	RP ≥ 1*	None
(K99) adhesin, strain O8:K35		
Inactivated bovine rotavirus,	RP ≥ 1*	None
serotype G6P1, strain TM-91		
Inactivated bovine coronavirus,	RP ≥ 1*	None
strain C-197		
Adjuvants and excipients – non-	To bal.	N/A
hazardous		

^{*} Relative potency (RP): level of antibodies in sera of vaccinated guinea pigs as determined by ELISA in comparison with the reference serum obtained after vaccination of guinea pigs with a vaccine batch that has successfully passed the challenge test in the target animals.

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. If eye irritation persists: Get

medical advice.

If on Skin Wash skin with plenty of soap and water. If skin irritation 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

CENTRE or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Notes to Doctor: No specific antidote, treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable	
Hazards from	Can burn in fire, releasing irritating and toxic gases due to	
combustion products	thermal decomposition or combustion	
Suitable Extinguishing	Use foam, dry chemical, or water spray	
media		
Precautions for	Fire fighters should wear self-contained breathing apparatus	
firefighters and special	and full protective equipment. Dike and collect water used to	
protective clothing	fight fire to prevent environmental damage due to run off.	
	Foam or dry chemical fire extinguishing systems are preferred	
	to prevent environmental damage from excessive water	
	runoff. Minimise use of water to prevent environmental	
	contamination	
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. Ensure adequate ventilation.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimise use of water to prevent environmental contamination.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

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Section 7. Handling and Storage

Precautions for Handling:

- · Read carefully and follow all instructions
- Wear protective clothing [as detailed in SDS Section 8]
- Avoid jolting and impact

Precautions for Storage:

- Store away from incompatible materials listed in Section 10
- Store at 2 8°C. Once open, the vials should not be stored above 25°C
- Protect from frost and light
- Keep out of reach of children
- Store in a cool, dry place in tightly closed containers

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 APR 2022 13TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment





Eyes	Not required
Hands	Wear protective gloves
Skin	Use suitable respiratory protective device when aerosol or mist is formed
Respiratory	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if vaccine gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
General	

Section 9. Physical and Chemical Properties

Appearance	Not available
Colour	Not available
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available

Freezing Point	Not available
Flash Point	>100°C
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	Not available
Water Solubility	Not available
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

Stability of Substance	This product is stable under normal conditions and storage	
Possibility of hazardous reactions	No data available	
Conditions to Avoid	Avoid temperatures above 8°C for prolonged periods of time	
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	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 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	

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

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)	Not triggered
Secondary Containment (Schedule 5)	Not triggered
Restriction of Use	Only use for the intended purpose.

ACVM Act and Regulations	
See <u>www.foodsafety.govt.nz</u> for registration	A12072
Conditions	

Section 16 Other Information

Glossary

Cat Category

EC50Median effective concentration.EELEnvironmental Exposure Limit.EPAEnvironmental 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 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

SAFETY DATA SHEET:

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (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 TCC (NZ) 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, TCC (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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