



Date of preparation:
19 August 2022

SAFETY DATA SHEET

B-Act

Section 1: Identification of the Substance and Supplier

Product Name:	B-Act
ACVM Registration Number:	A11376
Active substance:	Viable spores of <i>Bacillus licheniformis</i>
Recommended Use:	<i>Used as a direct fed microbial for poultry (broilers, turkeys, and layers) and pigs intended to provide a source of live, naturally occurring microorganisms ensuring stimulation of weight gain and improvement of feed conversion efficiency.</i> <i>An aid in the control of necrotic enteritis in broiler chickens.</i>
Company Details:	AgriHealth NZ Ltd Level 2, 89 Grafton Road, Grafton, Auckland 1010, New Zealand Phone: +64 9 215 1199 Fax: +64 9 984 9455 Website: www.agrihealth.co.nz
Emergency Telephone:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111

Section 2: Hazards Identification

This substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Health hazards

Respiratory sensitisation	Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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Signal words:	Danger
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**Hazard statements:**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P261 Avoid breathing dust
 P284 In case of inadequate ventilation wear respiratory protection
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor
 P501 Dispose of contents and containers in accordance with local regulations

Section 3: Composition / Information on Ingredients

Chemical composition:

Ingredient	CAS number	Proportion (%)
<i>Bacillus licheniformis</i>	N/A	< 5
Calcium carbonate	471-34-1	> 95

N/A = not available or not assigned

Section 4: First Aid Measures

General information: B-Act is a dry product in powder form that may be handled and stored as for any proteinaceous, non-toxic food or feed ingredient. For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor.

If inhaled: Remove to a well-ventilated area and keep at rest, allow to breathe normally.

If on skin: In case of contact with skin, wash off with water.

If in eyes: In case of contact with eyes rinse immediately with plenty of water. Remove contact lenses and continue rinsing. If irritation persists, seek medical attention.

If ingested: No special measures necessary. Rinse mouth thoroughly with water.

Notes for Medical Personnel: Treat exposed patients symptomatically. In sensitive and allergised individuals may cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 5: Fire Fighting Measures

Type of hazard:	Non-flammable
Extinguishing Media and Methods:	Water spray, foam, powders
Special hazards:	None foreseen
Advice for firefighters:	Standard fire-fighting measures, extinguishing equipment and apparatus may be used. Wear a self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal precautions:	Use personal protective clothing and equipment (safety glasses, face mask, long-sleeved overalls and closed footwear. Light gloves may also be worn.
Environmental precautions:	Accidental spillage should be treated as non-hazardous biological waste and cleaned up accordingly.
Methods for cleaning up:	Avoid dust formulation. Sweep up material, then mop or scrub floors with standard household cleaning agents. When picked up, treat material as prescribed under heading "Disposal".

Section 7: Handling and Storage

Precautions for Safe Handling:	Recommended to be used in a well-ventilated environment with standard protective clothing (safety glasses, face mask, overalls and closed footwear).
Storage	Keep only in the original container. Keep container tightly closed, cool and dry.

Section 8: Exposure Control / Personal Protection

Exposure controls:	Handle in a well-ventilated environment and use personal protective clothing and equipment (safety glasses, face mask, long-sleeved overalls and closed footwear. Light gloves may also be worn.
Hygienic measures	Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Keep away from foodstuffs and beverages.
Respiratory protection:	Use barrier ventilation systems or a face mask.
Hand protection:	Light cotton, latex or rubber gloves may be worn to prevent skin contact.

Eye protection: Safety glasses with side protective shield
Skin protection: Lightweight, long-sleeved overalls and closed footwear
Environmental exposure controls: Standard feed mill procedures for non-toxic, non-hazardous biological waste

Section 9: Physical and Chemical Properties

Appearance: Off-white to beige powder
 Odour: Characteristic faint, yeasty smell
 pH:
 Melting point/freezing point: No data available
 Initial boiling point: No data available
 Flash point: No data available
 Evaporation rate: No data available
 Flammability: No data available
 Upper/lower flammability or explosive limits: No data available
 Vapour pressure: No data available
 Vapour density: No data available
 Relative density: No data available
 Solubility: No data available
 Partition coefficient n-octanol/water: No data available
 Auto-ignition temperature: No data available
 Decomposition temperature: No data available
 Viscosity: No data available
 Explosive properties: No data available
 Oxidising properties: No data available

Section 10: Stability and Reactivity

Reactivity: Non-reactive dry product in powder form
Chemical stability: Stable dry product in powder form
Possibility of hazardous reactions: None

Conditions to avoid: Store in closed, original containers and avoid generating environmental dust from the product

Incompatible materials: None
Hazardous decomposition products: None

Section 11: Toxicological Information

Acute toxicity:

Product	Species	Test results
B-Act Acute oral LD ₅₀	Rat	Could not be determined because the maximum dose that could be administered to rats (4mL/0.2kg bw) did not cause any signs of intoxication or mortality

Skin corrosion/irritation:	No data available
Respiratory or skin sensitization:	B-Act contains proteinaceous material and so has the potential to cause allergic reactions in sensitive individuals
Germ cell mutagenicity:	Bacillus licheniformis is a biological agent and has been demonstrated to lack any toxigenic activity
Carcinogenicity:	Bacillus licheniformis is a biological agent and has been demonstrated to lack any toxigenic activity
Reproductive toxicity:	Bacillus licheniformis is a biological agent and has been demonstrated to lack any toxigenic activity
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

Section 12: Environmental Information

Toxicity:	No adverse environmental effects
Persistence and degradability:	Degrades rapidly through biodegradation
Bio-accumulative potential:	Does not persist in the environment and degrades rapidly through biodegradation
Mobility in soil:	Not applicable

Section 13: Disposal Considerations

Disposal Information:	Dispose of as non-hazardous biological waste. Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility.
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Section 14: Transport Information

UN number:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO
UN proper shipping name:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO
Transport hazard class/es:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO
Packing group:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO
Environmental hazards:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO
Special precautions for user:	Not applicable as this product is not regulated by IMDG/IMO, ADR/RID, IATA/ICAO

Section 15: Regulatory Information

Regulatory Status: Registered pursuant to the ACVM Act 1997, No. A11376
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996. Assigned to the
Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2020, HSR100759.

List Exposure Limits: None set

Section 16: Other Information

Additional Information: For product information see the AgriHealth website:
www.agrihealth.co.nz

Date of preparation: 19 August 2022
Due for revision within 5 years.

List of abbreviations:

ADR	International carriage of Dangerous Goods by Road
CAS number	Chemical abstract Service Registry Number
ICAO/IATA	International Civil Aviation Organisation / International Aid Transport Association
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organisation
NDA	No specific data available
RID	International Carriage of Dangerous Goods by Rail

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