

## Bio-Defender® (Multi Feed)

Bio-Defender® (Multi Feed) is a formulation that stimulates biological reactions responsible for digestion of organic residues and the direct neutralising and digestion of key odour substances in commercial and industrial processes. This product also stimulates digestion of hydrogen sulphide and ammonia.

**Warnings:** Not for human consumption. If accidental ingestion occurs, call a poison control centre. Do not use this product in any way contrary to this label. Keep away from eyes and exposed skin. If skin or eye contact occur rinse thoroughly with clean water to avoid irritation. Follow all local laws when disposing of this product. Use in a well-ventilated area. This product has a strong fermentative odour which dissipates quickly after use.

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THE LABEL**

**Ingredients:** Syrup, yeast, fruit, lemongrass oil, purified water.

**Storage Instructions:** Store in a shaded place until ready to use. DO NOT FREEZE. Keep container closed and free of debris when not in use. DO NOT SHAKE. Bio-Defender® (Multi Feed) is a fermented product. Colour and odour may vary during storage.

### Product Usage

- Designed for use in intensive commercial and industrial processes causing odour (including waste transfer stations, abattoirs, food processing operations, wet markets and anywhere organic waste residues accumulate).

### Directions for Use

Application	Application Timing	Application Rate (Litres per 1000m <sup>2</sup> of building floor space)	Dilution Rate (Product:Water)	Comments
Food markets and open, covered storage areas	Regular intermittent misting	1L/ day	1:1000	<ul style="list-style-type: none"><li>• Apply as a fine mist or fog to the space surrounding confined animals and organic residue collection areas.</li><li>• Preferred dosing interval is 1-3 minutes per hour during daylight. For manual applications apply once daily or as required.</li></ul>

				<ul style="list-style-type: none"><li>• For external applications, deliver in afternoon sun in calm conditions.</li></ul>
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## SAFETY DATA SHEET

### VRM Prot3ct® Bio-defender (Multi-feed)

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	: 280214PBMF
WHMIS Classification	: N/A
Product Use	: Probiotic odour and disease management
Manufacturer's Name	: <b>VRM Biologik Pty Ltd</b>
Street Address	: 22 Reward Crescent, Bohle, Queensland 4818 Australia
Phone	: +61 7 4774 6337
Date Prepared	: 31 January 2023

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	%	CAS Number	LD50 of Ingredient	LC50 of Ingredient
Purified Water	94.04	7732-18-5	N/A	N/A
Syrup	5.0	68425-17-2	N/A	N/A
Soap	0.4	N/A	N/A	N/A
Phosphoric Acid	0.25	7664-38-2	N/A	N/A
Vegetable Oil	0.20	84681-71-0	N/A	N/A
Yeast	0.05	8013-01-2	N/A	N/A
Potassium Humate	0.05	68514-28-3	N/A	N/A
Lemongrass Oil	0.009	8007-02-1	N/A	N/A
Citric Acid	0.001	77-92-9	N/A	N/A

#### 3. HAZARDS IDENTIFICATION

Poisons Schedule (Australia)	: N/A
Hazard Categories	: N/A
Pictograms	: N/A
Signal Word	: N/A
Hazard Statements	: N/A

#### 4. FIRST AID MEASURES

Contact Point	Detrimental Results	First Aid Measures
Eye Contact:	May result in mild irritation. Avoid contact with water - based contact lenses.	Rinse with water for at least 15 minutes.
Skin Contact :	Prolonged contact with concentrated liquid. May result in dryness and irritation of sensitive skin.	N/A
Ingestion:	May cause nausea if swallowed.	Give water to drink, do not induce vomiting.
Inhalation:	None at prepared dilutions. Note: intentional concentration and inhalation of vapours may be harmful.	Remove victim to open and ventilated area.

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## 5. FIRE FIGHTING MEASURES

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Flammable Limits	: Non-Flammable
Means of Extinction	: N/A
Flash Point (Degrees C)	: N/A
Upper Flammable Limit (% by volume)	: N/A
Lower Flammable Limit (% by volume)	: N/A
Auto Ignition Temperature (Degrees C)	: N/A
Explosion Data - Sensitivity to Impact	: N/A
Explosion Data - Sensitivity to Static Discharge	: N/A
Hazardous Combustion Products	: N/A

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## 6. ACCIDENTAL RELEASE MEASURES

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Emergency Procedures	: Nil
Clean Up Procedures	: Wash area with water to prevent stickiness.
Waste Disposal Information	: Dispose to sewer or with composted material.

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## 7. HANDLING AND STORAGE

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Handling	: Avoid excessive shaking. Vent storage containers during transport.
Precautions For Safe Handling	: None
Storage	: Store away from excessive heat, avoid excessive shaking, vent storage containers during transport.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Exposure Limits	: N/A
Respiratory Protection	: Exercise caution when concentration of vapour is possible.
Ventilation	: Exercise caution when concentration of vapour is possible.
Protective Gloves	: Rubber / Plastic Gloves recommended.
Eye Protection	: Safety Glasses recommended for prolonged contact with concentrated liquid (liquid is low pH)
Other Protective Measures	: Avoid Inhalation of concentrated vapour.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	: Liquid
Odour and Appearance	: Golden Brown Colour / Fruit Fragrance
Odour Threshold	: Not Available
Specific Gravity (H <sub>2</sub> O=1)	: 1.05 (Water)
Vapour Density (Air=1)	: As water
Vapour Pressure (mmHg)	: As water
Evaporation Rate: (Butyl Acetate=1)	: As water
Boiling Point (degrees C)	: 100 Degrees Celsius
Freezing Point (degrees C)	: 0 Degrees Celsius
pH	: 3.1 to 3.8
Coefficient of Water/Oil Distribution	: Not Available
Solubility In Water	: Liquid Soluble
Percent Volatile By Volume	: < 2%



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## 10. STABILITY AND REACTIVITY DATA

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Stability	: Alcohol be released when sprayed as aerosol.
Conditions To Avoid	: Excessive direct heat may damage product. Avoid Inhalation of concentrated vapour.
Materials To Avoid	: Contact with Strong Alkali products may result in exothermic reaction.
Hazardous Decomposition Products	: None
Hazardous Polymerisation	: None

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## 11. TOXICOLOGICAL INFORMATION

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Effects of Acute Exposure	: N/A
Effects of Chronic Exposure	: N/A

### Irritancy of Product

Skin Sensitisation	: N/A
Respiratory Sensitisation	: N/A
Carcinogenicity-IARC	: N/A
Carcinogenicity-ACGIH	: N/A
Reproductive Toxicity	: N/A
Teratogenicity	: N/A
Embryotoxicity	: N/A
Mutagenicity	: N/A

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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity	: Nil
Persistence and Degradability	: Nil
Mobility	: Nil
Other Adverse Effects	: Nil
Bioaccumulation potential	: Nil
Environmental Fate	: Nil
Environmental Impact	: Nil

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## 13. DISPOSAL CONSIDERATIONS

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General Information	: Dispose to sewer or with composted material.
Special Precautions for Landfill	: Recycle container where possible.



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#### 14. TRANSPORT INFORMATION

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##### LAND TRANSPORT

Proper Shipping Name	: VRM Prot3ct® Bio-defender (Multi-feed)
Class	: Non-hazardous
Subsidiary Risk(s)	: Nil
EPG	: N/A
UN Number	: N/A
Hazchem	: N/A
Pack Group	: N/A
Special Precautions for user	: Nil

##### SEA TRANSPORT

Proper Shipping Name	: VRM Prot3ct® Bio-defender (Multi-feed)
Class	: Non-hazardous
Subsidiary Risk(s)	: Nil
UN Number	: N/A
Hazchem	: N/A
Pack Group	: N/A

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#### 15. REGULATORY INFORMATION

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Poisons Schedule	: No Poisons Schedule number allocated
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#### 16. OTHER INFORMATION

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For information on appropriate emergency procedures, seek medical advice.

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#### VRM BIOLOGIK PTY LTD (ABN 14 137 264 496) - DISCLAIMER STATEMENT

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