

Bio-Seed

Bio-Seed is a formulation which stimulates biological reactions and the production of substrates to neutralise odour and metabolise odour generating substances.

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, 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-Seed is a fermented product. Colour and odour may vary during storage.

Product Usage

- Long term/ program-based odour management
- Used with Bio-Starter to neutralise odour and metabolise odour substances including hydrogen sulphide, mercaptans, etc.

Directions for Use

Application Type	General Application Rate (Product in Litres: Treated Surface Area in m ²)	General Application Rate (Product in Litres: Pond Volume in Litres)	Dilution (Product:Water)	Comments
Regular application to a wastewater stream or pipe		1L/day (where flow volume <10,000L/day) 4L/day (where flow volume > 10,000L/ day)	1:10	<ul style="list-style-type: none">• Use in 1:1 ratio with Bio-Starter.• Spray by dosing pump or similar metered dosing equipment.• Spray to a quiescent zone (either created or installed by you or naturally occurring) where water flow slows down as it passes through an area of installed media.
Collected non-liquid material or area	1L: 1,000m ² of area to be treated		3:100	<ul style="list-style-type: none">• Spray to the surface of the material being treated.• Use a fine spray if available but do not aerosol.• Be aware that proximity of the product to the material

				being treated is important to the effectiveness of the product – try to ensure even coverage.
Wastewater or collected liquid		1L: 20,000L of liquid volume	3:100	<ul style="list-style-type: none"> • Spray to the surface of the liquid being treated. • Use a course spray to ensure carriage to the liquid surface. • Be aware that proximity to the material is important to the effectiveness of the product – try to ensure even coverage. • Give focus to the entry and exit zones for the pon or collection area. • Spray to the banks of a pond or collection zone where liquid may enter or collect. • Look for deposition zones in the water and ensure coverage of these areas.



SAFETY DATA SHEET

VRM® Bio-Seed

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	: 11111
WHMIS Classification	: N/A
Product Use	: Microbial seeding, sludge reduction, sewerage treatment, odour reduction, waste consumption.
Manufacturer's Name	: VRM Biologik Pty Ltd
Street Address	: 22 Reward Crescent, Bohle, Queensland 4818 Australia
Phone	: +61 7 4774 6337
Date Prepared	: 16 September 2019

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	%	CAS Number	LD50 of Ingredient	LC50 of Ingredient
Purified Water	94.85	7732-18-5	N/A	N/A
Syrup	5.0	68425-17-2	N/A	N/A
Fruit	0.10	N/A	N/A	N/A
Yeast	0.05	8013-01-2	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:	None at prepared dilutions.	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.

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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	: None at prepared dilutions.
Other Protective Measures	: None at prepared dilutions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Odour and Appearance	: Reddish Brown Colour / Fermented Fragrance
Odour Threshold	: N/A
Specific Gravity (H ₂ O=1)	: 1
Vapour Density (Air=1)	: As Water
Vapour Pressure (mmHg)	: As Water
Evaporation Rate: (Butyl Acetate=1)	: As Water
Boiling Point (degrees C)	: 100
Freezing Point (degrees C)	: 0
pH	: 3.1 - 3.8
Coefficient of Water/Oil Distribution	: N/A
Solubility In Water	: Liquid Soluble
Percent Volatile By Volume	: < 2%

10. STABILITY AND REACTIVITY DATA

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

11. TOXICOLOGICAL INFORMATION

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
Embrototoxicity	: N/A
Mutagenicity	: N/A

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

General Information	: Dispose via sewer or with composted material.
Special Precautions for Land Fill	: Recycle container where possible.



14. TRANSPORT INFORMATION

LAND TRANSPORT

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

15. REGULATORY INFORMATION

Poisons Schedule : No Poisons Schedule number allocated

16. OTHER INFORMATION

For information on appropriate emergency procedures, seek medical advice.

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