

Groundswell® Micro Accelerator

Previously known as Liquid Bokashi, Groundswell® Micro Accelerator is a formulation whose function is to stimulate the natural biological reactions responsible for the conversion of organic material in the Groundswell® continuous fermentation process. These formulations enable the safe conversion of mixed organic material without the wholesale loss of nutrient or production of negative gases and odour which characterises most other processes. These products are specifically designed to energise the Groundswell® process by stimulating bacterial photosynthesis.

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, food grade phosphoric acid, potassium humate, vegetable 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. Groundswell® Micro Accelerator is a fermented product. Colour and odour may vary during storage.

Product Usage

- Groundswell® Micro Accelerator is used for small scale Groundswell® processes (less than 20 tonnes of organic residue treated) as an alternative to composting. Can also be used in conjunction with bokashi buckets or kitchen composting systems.
- Bio-Regen® residues can also be treated using this product.
- Used also to manage odour and decomposition of material in composting toilets and portable toilets.

Directions for Use

Application Type	Product Volume (Litres)	Dilution Rate (Product: Water)	Comments
Small scale Groundswell® processes/ Bio-Regen® residues	500mL/ tonne of material	1:10	<ul style="list-style-type: none">• Apply in a fine mist to the material. Ensure even coverage.
Kitchen compost/ bokashi bins	3-4ml/ spray	-	<ul style="list-style-type: none">• Apply as a spray to the surface of the material.
Composting toilets	3-4mL/spray	-	<ul style="list-style-type: none">• Apply as a spray into the chamber of the toilet after every use.

Applications

- Festivals, carnivals, field events
- Kitchen compost units



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SAFETY DATA SHEET

Groundswell® Micro Accelerator

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	: 280214GMA
WHMIS Classification	: N/A
Product Use	: Compost and Fermentation Aid
Manufacturer's Name	: VRM Biologik Pty Ltd
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	94.25	7732-18-5	N/A	N/A
Syrup	5.0	68425-17-2	N/A	N/A
Phosphoric Acid	0.25	7664-38-1	N/A	N/A
Vegetable Oil	0.2	84681-71-0	N/A	N/A
Fruit	0.2	N/A	N/A	N/A
Potassium Humate	0.05	68514-28-3	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 :	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.



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	: Safety Glasses recommended for prolonged contact with concentrated liquid. (liquid is low pH)
Other Protective Measures	: Avoid Inhalation of concentrated vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Odour and Appearance	: Golden Brown Colour / Fruit 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 may 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

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, IARC	: N/A
Carcinogenicity-ACGIH, ACGIH	: N/A
Reproductive Toxicity	: N/A
Teratogenicity	: N/A
Embryotoxicity	: 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 to sewer or with composted material.
Special Precautions for Landfill	: Recycle container where possible.



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14. TRANSPORT INFORMATION

LAND TRANSPORT

Proper Shipping Name : Groundswell® Micro Accelerator
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 : Groundswell® Micro Accelerator
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. For emergencies, please contact +61 403 466 820 (24 hours)

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