

## Bio-Regen® Photon Fuel

Photon Fuel is a purpose-built formulation which stimulates naturally occurring biological reactions used in the conversion of organic material in Bio-Regen® units. This product is non-poisonous and compatible with the specialised biological processes required to successfully operate the Bio-Regen® program.

**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, 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-Regen® Photon Fuel is a fermented product. Colour and odour may vary during storage.

### Product Usage

- Used in conjunction with Bio-Regen® Mikro Clean via automatic dosage to convert unused food to raw ferment in the Bio-Regen® process.

### Directions for Use

Application Type	Product Volume (Litres)	Comments
Prior to commencement of Bio-Regen® process	10	<ul style="list-style-type: none"><li>• Apply to the base of each new storage tank used in Bio-Regen® operation.</li></ul>
Commencing Bio-Regen® process	As needed	<ul style="list-style-type: none"><li>• Fill the reservoir in the Bio-Regen® unit</li><li>• Refill as required</li></ul>



## SAFETY DATA SHEET

### VRM Bio-Regen® Photon Fuel

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	: 280214BR
WHMIS Classification	: N/A
Product Use	: Compost and Fermentation Aid
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	94.25	7732-18-5	N/A	N/A
Syrup	5.0	68425-17-2	N/A	N/A
Phosphoric Acid	0.25	7664-38-2	N/A	N/A
Fruit	0.2	N/A	N/A	N/A
Vegetable Oil	0.2	84681-71-0	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, avoid excessive shaking, vent storage containers during transport.

---

## 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 / Fermented 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%



---

## 10. STABILITY AND REACTIVITY DATA

---

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

---

## 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
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.



**VRM Biologik Pty Ltd**

22 Reward Crescent, Bohle

Queensland 4818 Australia

**T** : +61 7 4774 6337 | **F** : +61 7 4774 6338

**www.vrm.science**

---

## 14. TRANSPORT INFORMATION

---

### LAND TRANSPORT

Proper Shipping Name	: VRM Bio-Regen® Photon Fuel
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-Regen® Photon Fuel
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)

---

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

---

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy of the information contained herein. VRM Biologik Pty Ltd accepts no responsibility whatsoever arising from reliance on the accuracy of this information and strongly recommends that users of this product obtain their own separate technical advice with respect to the use or handling of this product.