

Safety Data Sheet

Prepared to GHS Rev03

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Printed: 4/16/2020 7:21:00 AM

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1. IDENTIFICATION

Product name: **Recover PO4**
Product use: Biological growth promoter

Supplier: **BrettYoung**
Box 99 St Norbert Postal Station
Winnipeg, MB Canada
R3V 1L5

Emergency phone number: 1-800-665-5015

2. HAZARD IDENTIFICATION

Classification according to GHS EC/1272/2008
Acute toxicity (dermal) Cat. 4 H312: Harmful in contact with skin
Acute toxicity (inhalation) Cat. 4 H332: Harmful if inhaled
Eye irritation Cat. 2: Causes serious eye irritation
Hazardous to waters Cat 2:H411 Toxic to aquatic life.

Special advice for humans and environment
Avoid any eye and skin contact with the product. Do not inhale. Keep (remaining) product away from waters.

3. COMPOSITION/INGREDIENT INFORMATION

Chemical characterization:	Contains spores of the natural fungus <i>Penicillium bilaii</i>
Composition:	5x10 ⁸ active spores of <i>Penicillium bilaii</i> per ml
Hazardous ingredients:	Polyethersiloxane
Other information:	none

4. FIRST-AID MEASURES

General advice: No specific advices

Inhalation: Remove person from exposure area to fresh air and check to ensure adequate respiration. Seek medical attention.

Skin contact: Remove contaminated clothing and immediately wash contaminated area with large amount of water for at least 15 minutes. Seek medical attention.

Eye contact: Hold eyelids apart to ensure rinsing of the entire surface of the eyes and rinse slowly and gently with water for at least 15 minutes. Seek medical attention immediately.

Ingestion: If person is conscious, immediately give large quantities of water and induce vomiting. Do not induce vomiting or give any fluids by mouth to an unconscious person. Seek medical attention immediately. Show label or this SDS.

Other information: In all cases of doubt or when symptoms persist, seek medical attention.

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Advice to Physician: Symptoms and treatment: No special advice for treatment after contact with the product.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water, foam, carbon dioxide and dry powder.
Measures unsuitable for Safety reasons: Full water jet
Fire Fighting Instructions: No special requirements
Special Hazard Properties Carbon dioxides, silicium dioxide
Protective equipment: Wear respiratory protective equipment independent of surrounding air and chemical protective suit.
Other advices: Dispose of contaminated firewater separately. Do not allow run off in drainage system.

6. ACCIDENTAL RELEASE MEASURE

Personal precautions: Avoid inhalation and contact with eye and skin. Remove source of ignition.
Environmental precautions: None
Cleaning/Disposal: Take up with a liquid binder (e.g. sand, silica gel) and dispose according to applicable regulations.
Other Advices: None

7. HANDLING AND STORAGE

Storage: Store at a dry place in closed original packages only. Do not store below freezing point. Do not store together with oxidants.
Other information on Storage: German Water hazard class 2: Hazard to waters.
Handling:
Safety Precautions: Store in original container only. Wear eye protection.
Environmental Precautions: Keep container tightly closed. Keep product away from waters.
Fire and Explosive Protection: Ensure sufficient ventilation; keep away from sources of ignition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved respirator. Special ventilation is not required for normal handling and use of this product when following the label requirements.
Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid.
Eye Protection: Use safety goggles. DO NOT WEAR CONTACT LENSES.

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Note: After handling product practice general hygiene. Wash hands and face with soap and water before smoking, drinking or eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown/black liquid
Odor:	Characteristic
Vapor Pressure:	Not available
Vapor Density:	Not available
Solubility in water:	Soluble/Dispersible
Specific gravity:	1.04 g/cc
Melting point:	Not available
PH:	8 (at 40 g/l at 25°C)
Volatility:	Not available
Color:	Light brown liquid
Freezing point:	-4°C
Flashpoint:	263°C at 760 mm Hg
Boiling point:	112°C
Explosive properties:	No hazardous reactions if used for intended purposes.
Evaporation Rate:	Not determined
Viscosity:	40-90 kg/m/s at 25°C

10. STABILITY AND REACTIVITY

Thermal Decomposition/Avoid	Avoid naked flame and ignition source.
Hazardous reactions:	Avoid contact with other chemicals and oxidants
Hazardous Decomposition Products:	Causes dangerous fire effluents.
Other information:	No hazardous reactions if used for the intended purposes.

11. TOXICOLOGY INFORMATION

Acute Toxicity	
LD50 Oral:	>3200 mg/kg (undiluted)
LD50 Dermal:	No data
LD50 Inhalation:	1.08 mg/l in 4 hours (undiluted)
Eye irritation:	Irritant, Danger of serious eye damage (undiluted)
Sensitizations:	Non skin sensitizing

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12. ECOLOGICAL INFORMATION

Ecological effects: LC50 Oncorhynchus mykiss: 21. Mg/l (undiluted)
EC50 Daphina magna: 1.1 mg/l (undiluted)
EC50 Scenedesmus subspicatus 28.2 mg/l
EC50 Scenedesmus subspicatus 152.2mg/l growth rate

Effects on waste water treatment: Do not expose to waste water or drain system

Mobility

Persistence and degradability: No data

Bioaccumulative potential: None

13. DISPOSAL CONSIDERATIONS

Product: Do not dispose in domestic waste water system. Dispose of according to local regulations

Packaging: Rinse clean and dispose of according to local regulations.

14. TRANSPORT INFORMATION

Transport Conditions:

Container volumes > 5 liters

Land: Class 9, Misc (ADR/RID/GGVSE)

Sea: Class 9, Misc (ADR/RID/GGVSE)

Air: Class 9, Misc (ADR/RID/GGVSE)

UN- Code: 3082

Container volumes < 5 liters

Land: No restrictions

Sea: No restrictions

Air: No restrictions

15. REGULATORY INFORMATION

EEC Classification: None

Hazard Symbol/Labeling:



Hazard Statements: H312, H319, H332, H332, H411

Precautionary-statements: P280, P309+P310, P305+P351+P338, P391

Other: to avoid any risk for humans and environment, consult label and read directions before use.

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16. OTHER INFORMATION

The purpose of the above information is to describe the product only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

Prepared by Rene Mabon