



Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Healthy Ponds® AquaSphere®PRO (biodegradable) & Stock Tank and Pond Water Cleaner

Other Identifier: Item # 51112, 51113, 51115, 51116, 51117, 51118, 51120, 51150 & 51160

Description: A proprietary blend of naturally occurring, non-pathogenic, non-genetically altered microorganisms on a natural carrier surrounded by a biodegradable biopolymer resin shell

Recommended Use: Water Treatment

Form: Powder and Biopolymer Resin

Supplier Identification: Bioverse, Inc.
2220 Research Lane,
Worthington, MN 56187
877-948-0303

Website: www.healthyponds.com

Email: support@bioverse.com

Emergency Number: Chemtrec 1-800-424-9300 (Emergency 24 hours); Outside US 1-703-527-3887
Chemtrec Administrative Office Telephone Number 1-800-262-8200

Section 2 – Hazards Identification

INNER CONTENTS

Hazard Class: None

Signal Word: None

Hazard Statement: None

Precautionary Statement:

Do not breathe dust. Do not get on skin or clothing. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep container closed and sealed until ready for use. Wash thoroughly after handling. Do not ingest.



Hazard Symbol:

OUTER SHELL MATERIAL

OSHA HAZARDS

No known OSHA hazards.

Not considered hazardous according to EC Directives 67/548/EEC or 1999/45/EC and their valid adaptations and derived national regulations.



HMIS Classification (estimated)

Health hazard: 0
Flammability: 1
Physical hazards: 0

NFPA Rating (estimated)

Health hazard: 0
Fire: 1
Reactivity 0

Potential Health Effects

Eye: None.
Skin: None
Ingestion: None
Inhalation: None.
Chronic: No information found.

Section 3 - Composition/Information on Ingredients

INNER CONTENTS

CAS#	Chemical Name	EINECS/ELINCS	IUB	% by weight
9000-90-2	Alpha amylase	232-565-6	3.2.1.1	< 0.1%
9012-54-8	Cellulase	232-734-4	3.2.1.4	< 0.1%
9001-82-1	Lipase	232.619..9	3.1.1.3	< 0.01%
9014-01-1	Protease (subtilisin)	232-752-2	3.4.21.62	< 0.05%

Other components: remaining components of this product are proprietary, nonhazardous and/or are present at concentrations below reportable limits.

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Product consists of a proprietary blend of polyhydroxyalkanoate (PHA) base polymer, additives, and mineral fillers.

Section 4 – First Aid Measures

INNER CONTENTS

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids; get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of water.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.



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Eyes: None

Skin: None.

Ingestion: None.

Inhalation: None.

Notes to Physician: None.

Section 5 – Fire Fighting Measures

INNER CONTENTS

Fire Fighting Extinguishing media: Water, foam, chemical and carbon dioxide

Fire Fighting Chemical Hazards: May cause allergic respiratory reaction

Fire Fighting Protective Actions: Not available

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Flash Point: Not determined.

Auto-Ignition Temperature: Not determined.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Special Protective Equipment for Fire-fighters: Wear a self-contained breathing apparatus in pressure-demand mode, MSHA/NIOSH (approved or equivalent), and full protective gear.

Hazardous Combustion Products: crotonic acid, carbon dioxide, carbon monoxide

Combustible Dust: None.

Section 6 - Accidental Release Measures

INNER CONTENTS

Personal precautions, protective equipment and emergency procedures: Contact unnecessary and unprotected personnel from entering area. Provide sufficient ventilation and remove contaminated clothing. Do not walk through spilled material. Avoid breathing dust.

Environmental precautions: Removal by mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.

Methods and material for containment and cleaning up: Remove spilled material immediately to reduce the formation of dust using mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.



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General Information: None.

Spills/Leaks: None.

Section 7 - Handling and Storage

INNER CONTENTS

Precautions for safe handling: Segregate from acids, peroxides, and combustible organic materials or easily oxidizable materials. Keep from freezing. Protect against physical damage. Keep away from heat and flame.

Conditions for safe storage including any incompatibilities: Keep away from heat and flame. Store in a cool dry area in closed original containers.

Hygiene: not specified

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Handling: None.

Storage: None.

Section 8 - Exposure Controls/Personal Protection

INNER CONTENTS

Occupational exposure limits: None established

Biological limit values: None established

Appropriate engineering controls:

Eye/face protective equipment:

Skin protection:

Respiratory protection:

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Engineering Controls: None.

OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Skin:

Respirators:



Section 9 - Physical and Chemical Properties

INNER CONTENTS

Physical State:	Solid
Appearance:	Tan free flowing powder
Odor:	Fermentation odor
Odor threshold:	Not established
pH:	Not established.
Freezing/Melting Point:	Not established.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not available
Upper/lower flammability or exposure limits:	Not available
Vapor Pressure:	Not available.
Vapor Density:	Not available
Relative Density:	Not established
Solubility:	Dispersible in water
Partial coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

Other Information: No additional information.

OUTER SHELL MATERIAL

Physical State:	Solid
Appearance:	Off-white semi-sphere
Odor:	None
pH:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	Not applicable
Melting Point:	100°C-190°C (212°F-374°F)
Decomposition Temperature:	Above 200°C (392°F)
Specific Gravity/Density:	1.4 g/cm ³
Molecular Weight:	Approximately > 100,000 (by GPC)
Solubility:	Soluble in chloroform, methylene chloride, N-Methylpyrrolidone



Section 10 - Stability and Reactivity

INNER CONTENTS

Chemical Stability:	Stable.
Hazardous Reactions:	None identified
Conditions to Avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	None

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Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Incompatible materials, excess heat, flames ignition sources.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, crotonic acid

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

INNER CONTENTS

Acute toxicity: Ingestion of this material is not known to result in adverse effects. No specific data available

Skin Corrosion/irritation: this material may be a mild skin irritant.

Serious eye damage/irritation: overexposure to the eye is characterized by irritation

Respiratory or skin sensitization: overexposure by inhalation may cause sensitization and allergic response in hypersensitive individuals; not a skin sensitizer

Germ cell mutagenicity: Not available.

Carcinogenicity: Not listed by IARC, OSHA, or NTP

Reproductive toxicity: No data available

Aspiration hazard: see respiratory sensitization

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Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Section 12 - Ecological Information

INNER CONTENTS

Ecotoxicity: No specific data available

Persistence and degradability: No specific data; components are considered to be biodegradable.

Bioaccumulation potential: No specific data available; components considered to be biodegradable will not bioaccumulate.

Mobility in soil: No data available

Results of PBT and vPvB assessment: No specific data available; the substance does not meet the criteria for characterization as either PBT or vPvB

Other adverse effects: None known



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Mirel base resin has the following certifications for biodegradability:

BPI-certified to meet U.S. standard for compostable plastics that will compost satisfactorily in municipal and industrial aerobic composting facilities according to ASTM D6400

Vinçotte-certified as "OK Biodegradable Water" for nature freshwater environments.

Vinçotte-certified as "OK Biodegradable Soil" for nature soil environments.

Vinçotte-certified as "OK Compost" for biodegradability in industrial composting units to meet E.U. standard for compostable plastics according to EN 13432 / EN 14995.

Vinçotte-certified as "OK Compost Home" for biodegradability in home composting systems.

P1003 is Vinçotte-certified as "OK biobased" for biobased carbon content of more than 80%, Class 4.

Meets the U.S. standard for non-floating biodegradable plastics in marine environments according to ASTM D7081.

Section 13 - Disposal Considerations

INNER CONTENTS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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There are no special requirements. Observe all federal, state, and local environmental regulations. Non-hazardous, biobased, and biodegradable biopolymer resin is not designed to biodegrade in conventional landfills and is not part of the conventional plastics recycling stream.

Section 14 - Transport Information

INNER CONTENTS

UN Number: None assigned; the substance is not classified as hazardous for transport.

UN Proper Shipping Name: NOT Regulated.

Transport Hazard classes: NOT Regulated.

Packing Group: NOT Regulated.

Transport Environmental Hazards: The substance is not classified as hazardous for transport.

Transport Special Precautions for User: The substance is not classified as hazardous for transport.

Transport in Bulk (MARPOL): The substance is not classified as hazardous for transport.

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Not regulated.



Section 15 - Regulatory Information

INNER CONTENTS

HMIS Hazards Ratings: Health 1
Flammability 0
Reactivity 0
Personal Protection: E

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TSCA

Mirel polymers are listed on the TSCA inventory.

EUROPEAN UNION

Not considered hazardous according to EC Directives 67/548/EEC or 1999/45/EC and their valid adaptations and derived national regulations.

Section 16 - Additional Information

INNER CONTENTS

SDS Creation Date: 03/25/2015
SDS Review Date: 03/25/2015

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. Accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of the company, it is the responsibility of the user to determine the conditions of safe use of this product. This information does not represent analytical specifications.

OUTER SHELL MATERIAL

MSDS Creation Date: 03/23/2012

No additional information.