



# 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](http://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.

**OUTER SHELL MATERIAL**

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.



## **OUTER SHELL MATERIAL**

**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

## **OUTER SHELL MATERIAL**

**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.



## **OUTER SHELL MATERIAL**

**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

## **OUTER SHELL MATERIAL**

**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:**

#### **OUTER SHELL MATERIAL**

**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**

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

**Other Information:** No additional information.

### **OUTER SHELL MATERIAL**

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



## **Section 10 - Stability and Reactivity**

### **INNER CONTENTS**

|                                          |                 |
|------------------------------------------|-----------------|
| <b>Chemical Stability:</b>               | Stable.         |
| <b>Hazardous Reactions:</b>              | None identified |
| <b>Conditions to Avoid:</b>              | None known      |
| <b>Incompatible materials:</b>           | None known      |
| <b>Hazardous decomposition products:</b> | None            |

### **OUTER SHELL MATERIAL**

**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

### **OUTER SHELL MATERIAL**

**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



## **OUTER SHELL MATERIAL**

### **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.

### **OUTER SHELL MATERIAL**

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.

### **OUTER SHELL MATERIAL**

Not regulated.



## **Section 15 - Regulatory Information**

### **INNER CONTENTS**

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

### **OUTER SHELL MATERIAL US FEDERAL**

#### **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.