



# Safety Data Sheet

## **Section 1 - Chemical Product and Company Identification**

**Product Name:** Healthy Ponds® AquaSphere®PRO (Poly)

**Other Identifier:** Item # 91160, 91140, 91100

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

**Recommended Use:** Water Treatment

**Form:** Powder and polypropylene shell

**Supplier Identification:** Bioverse, Inc.  
1527 Prairie Drive, Suite 3  
Worthington, MN 56187  
877-948-0303

**Website:** [www.bioverse.com](http://www.bioverse.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:** None

### **OUTER SHELL MATERIAL**

This product is not hazardous as defined in 29 CFR 1910.1200.

This is a polymeric material. All constituents are wetted by the polymer system, and therefore, present no likelihood of exposure under normal conditions of processing and handling.



### **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**

##### **COMPOSITION / INFORMATION ON INGREDIENTS**

##### **COMPONENT CAS Number CONCENTRATION**

Polypropylene Copolymer 9010-79-1 100.0%

### **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**

**Eye Contact:** This product is an inert solid. If in eyes, remove as one would any foreign object.

**Skin Contact:** For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. For hot product, no attempt should be made to remove material from skin or remove contaminated clothing as the damaged flesh can easily be torn.

**Inhalation:** In case of adverse exposure to vapors and/or aerosols formed at elevated temperatures, immediately remove the effected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

**Ingestion:** First aid is normally not required.

### **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**

**General Hazard:** Solid material may burn at or above the flashpoint and airborne dust may explode if ignited. Toxic gases will form upon combustion.

Static discharge: material can accumulate static charges, which can cause an incendiary electrical discharge.

**Fire Fighting:** Use dry chemical, foam, or carbon dioxide to extinguish. Use water spray only to cool fire exposed surfaces and to protect personnel.

Isolate "fuel" supply from fire.

Respiratory and eye protection required for fire fighting personnel.

**Decomposition of Products under Fire Conditions:** Oxygen-lean conditions may produce carbon monoxide and irritating smoke.

## **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**

**Land Spill:** Recover spilled material and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**Water Spill:** Recover spilled material and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

## **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**

**Storage Temperature °F:**

Ambient

**Storage/Transport Pressure, mmHg:**

Atmospheric pressure

**UN Number:**

Not Available

**Loading/Unloading Temperature, °F:**

Ambient

**Viscosity at Loading/Unloading Temperature, cST:**

Not Applicable

**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**

**OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:**

5 mg/m3 (respirable dust) and 15 mg/m3 (total dust) based on the OSHA PEL for nuisance dust.

**THE ACGIH RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMIT:** a TWA of 10 mg/m3 (total dust) for nuisance dust.

**PRECAUTIONS:**

**Personal Protection:** For open systems at ambient temperatures (-18 to +38°C, 0 to 100°F) where contact is likely, wear safety glasses.

Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

Where concentrations in air may exceed the limits given in this section and engineering work practice, or other means of exposure reduction are not adequate. NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

**Ventilation:** Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit. See personal protection recommendations.

**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

**Specific Gravity: Vapor Pressure:**

0.90 grams/cc Negligible

**Solubility in Water, Wt. % at °F: Viscosity of Liquid, CST at °F:**

Insoluble Not Applicable

**Specific Gravity of Vapor at 1 ATM AIR = 1: Freezing/Melting Point °F:**

Not Available Varies by grade >225°F

**Evaporation Rate n-BU Acetate = 1: Boiling Point, °F:**

Not Available Not Applicable

**Flashpoint: Flammable Limits:**

>600°F Not Applicable

**Autoignition Temperature:**

>575°F

## 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

**Stability: Hazardous Polymerization:**

Stable at normal ambient temperature and Will not occur Pressure.

**Conditions to Avoid Instability: To Avoid Hazardous Polymerization:**

Not Applicable Not Applicable

**Materials/Conditions to Avoid Incompatibility:**

Temperatures over 480°F/250°C may cause decomposition and/or reaction oxygen or oxidizers.

**Hazardous Decomposition Products:**

None



## **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**

#### **NATURE OF HAZARD:**

**Eye Contact:** Particulates may scratch eye surfaces/cause mechanical irritation.

**Skin Contact:** Exposure to hot material may cause thermal burns. Negligible hazard at ambient temperatures (-18 to +38°C, 0 to 100°F).

**Inhalation:** Negligible hazard at ambient temperatures (-18 to +38°C, 0 to 100°F). Vapors and/or aerosols, which may form at elevated temperature, may be irritating to eyes and respiratory tract. Low order of toxicity.

**Ingestion:** Minimal toxicity.

## **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**

**Eco -toxicity:** No relevant studies conducted.

**Degradability / Persistence:** Material is non-biodegradable.

**Bio-accumulation:** Significant accumulation in biological organisms is not to be expected.

**Other adverse effects:** No negative ecological effects are expected based on current knowledge.





## **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**

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

REVISED DATE 7/16/15