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

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 oxidizible 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 ºF:
Ambient
Storage/Transport Pressure, mmHg:
Atmospheric pressure
UN Number:
Not Available
Loading/Unloading Temperature, ºF:
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

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

Specific Gravity: Vapor Pressure:
0.90 grams/cc Negligible
Solubility in Water, Wt. % at ºF: Viscosity of Liquid, CST at ºF:
Insoluble Not Applicable
Specific Gravity of Vapor at 1 ATM AIR = 1: Freezing/Melting Point ºF:
Not Available Varies by grade >225ºF
Evaporation Rate n-BU Acetate = 1: Boiling Point, ºF:
Not Available Not Applicable
Flashpoint: Flammable Limits:
>600ºF Not Applicable
Autoignition Temperature:
>575ºF

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

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 480ºF/250ºC 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 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

Recycling: This material may be recycled if not contaminated to the point of making it unsuitable for intended uses. Material properties may change in recycling and re-use may not always be appropriate.
Disposal Methods: Dispose of material in accordance with all national, state, and local regulations. Dispose of by burial in land-fill licensed to accept chemical wastes. Disposal by incineration should occur in a licensed apparatus. 4

Section 14 - Transport Information

INNER CONTENTS

UN Number: None assigned; the substance is not classified as hazardous for transport.
UN Proper Shipping Name: Not applicable.
Transport Hazard classes: Not applicable.
Packing Group: Not applicable.
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

US DOT Classification: Electrostatic Accumulation Hazard:
Not regulated Yes, use proper grounding procedure

Section 15 - Regulatory Information

INNER CONTENTS

HMIS Hazards Ratings:

Health	**1**
Flammability	**0**
Reactivity	**0**
Personal Protection:	**E**

OUTER SHELL MATERIAL

TSCA: This product is listed on the TSCA Inventory

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