## **MATERIAL SAFETY DATA SHEET**

# **Orb-3® PRA & Enzymes Maintenance**

## Section 1 – Chemical Product & Company Identification

**Trade Name:** Orb-3® PRA & Enzymes Maintenance

**Chemical Family:** Mixture

**Product Description:** Concentrated innocuous liquid phosphate remover with enzymes.

**Manufacturer:** Great Lakes Bio Systems, Inc.

13916 Leetsbir Road, Sturtevant, WI 53177

**Technical Support:** 800-236-1366 **Chemical Emergency:** 800-424-9300

**Issue Date:** 10/28/2010 **Supersedes Date:** 5/5/2008

## Section 2 - Hazards Identification

**Emergency overview:** Avoid contact with eyes. Mild skin irritation.

#### Potential health effects:

**Eyes:** Contact with eyes can cause severe irritation. **Skin:** May cause irritation upon prolonged contact.

**Inhalation:** Unknown

**Ingestion:** May cause irritation to the mouth and throat. May cause nausea.

## Section 3 – Composition / Information on Ingredients

#### Components CAS # Percent

Orb-3® PRA & Enzymes Maintenance is a proprietary composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200

### Section 4 - First Aid Measures

#### First aid procedures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek

medical attention if irritation persists.

Skin Contact: Flush skin with large amounts of water. Remove any contaminated

clothing and wash before reuse. Seek medical attention if irritation

occurs.

**Inhalation:** If symptoms are experienced, remove source of contamination and/or move

victim to fresh air. If breathing is difficult, have trained personnel administer oxygen. If respiration stops, have trained personnel administer artificial

respiration. Get medical attention immediately.

**Ingestion:** Give large amounts of water. Do not induce vomiting. If spontaneous vomiting is

inevitable, prevent aspiration by keeping victim's head below the knees. Get

immediate medical attention.

## Section 5 - Fire Fighting Measures

Flash Point: None

**Extinguishing** 

**Media:** Water fog or fine spray, carbon dioxide, dry chemical or foam.

Fire fighting

Protection: As in any fire, wear self-contained breathing apparatus pressure-

demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

### Section 6 – Accidental Release Measures

Personal

**Precautions:** Isolate area. Keep unnecessary personnel away. Keep out of low areas.

Ventilate closed spaces before entering.

**Environmental** 

**Precautions:** Prevent further leakage or spillage if safe to do so.

Methods for

Containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for

**Clean-up:** Wear appropriate protective equipment and clothing during clean-up.

Large spill: Use a non-combustible material like vermiculite, sand or earth to soak

up the product and place into a container for later disposal. Dispose in

accordance with all local, state and federal regulations.

Small spill: Follow same procedure as above.

## Section 7 – Handling and Storage

**Handling:** Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Storage: Store this product below 120°F (49°C), preferably below 75°F (24°C), in a cool,

dry, well ventilated area away from heat, sparks, flame, oxidizers and out of

direct sunlight. For best results, use within 12 months.

## Section 8 – Exposure Controls, Personal Protection

#### **Personal Protection**

**General:** Eye wash fountain is recommended.

**Eyes:** Wear chemical goggles.

**Skin:** Wear suitable protective clothing. Use impervious gloves.

## Section 9 - Physical & Chemical Properties

**Vapor Pressure:** <0.01 mm Hg @ 68° F (20° C)

Vapor Density (air = 1): Same as water

**Specific Gravity:** ~1.20 – 1.25 @ 77° F (25° C)

Solubility in water: Complete VOC: Negligible

Appearance:Translucent light aqua liquidpH: $3.0 - 3.5 @ 77^{\circ} F (25^{\circ} C)$ 

**Boiling Point:**  $> 212^{\circ} \text{ F } (100^{\circ} \text{ C})$ 

Flash Point: None

Freezing Point:  $< 32 \degree F (0 \degree C)$ 

**Evaporation Rate:** <0.01 \*N-butyl acetate = 1 **Weight:** 10.0 – 10.3 lbs. /gallon

Odor: Mild

## Section 10 – Stability & Reactivity

**Chemical Stability:** Stable at normal conditions.

Incompatible Materials: Strong oxidizing agents, alkalis

**Hazardous Decomposition** 

**Products:** None known.

Conditions to avoid: See Section 7.

Hazardous Polymerization: Will not occur.

## **Section 11 – Toxicology Information**

**Toxicology data:** Not available.

## Section 12 – Ecological Information

**Ecotoxicity:** Not available.

## Section 13 – Disposal Considerations

Disposal instructions: Dispose in accordance with all applicable regulations. All wastes must be

handled in accordance with local, state and federal regulations.

Regulations vary.

## **Section 14 – Transportation Information**

**General information:** Non-hazardous.

**US DOT:** Not regulated.

Proper Shipping Description: NMFC 48580.3 Cleaning/Scouring/Wash Comp

Class 55

# Section 15 - Regulatory Information

**TSCA Inventory Status:** This product and/or all of its components are either included on

or exempt from the TSCA Inventory of Chemical Substances.

**DSL (Canada):** This product and/or all of its components are either included on

or exempt from the Domestic Substances List.

## Section 16 - Other Information

**HMIS ratings:** Health: 1

Flammability: 0 Physical hazard: 0

NFPA ratings: Health: 1

Flammability: 0 Reactivity: 0

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no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Great Lakes Bio Systems, Inc. assumes no responsibility for personal injury or property damage to the Vendee, Users or Third Parties caused by the material. Such Vendees or Users assume all risks associated with use of this

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