



Revision Date: 04/28/2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANYProduct Name: **Roots Pond Saver**

Product Identity: Product is comprised of 4 species known bacilliform bacteria and 1 pseudomonad in spore form on a soluble, nontoxic carrier. Bacteria are naturally-occurring, rated as Biosafety Level 1, and have not been genetically modified. Species composition is completely defined (all species are known).

Recommended use: Soluble microbial pond water treatment.

Supplier/Manufacturer

Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042
800-233-0628
(717-273-1685)

Emergency telephone numbers:

Chemtrec (Spill) 1-800-424-9300

Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION**Signal Word:** None**Hazard Statements and Hazard Category:**

May be irritating if inhaled.

May be mildly irritating to eyes on contact.

Pictogram: None**Precautionary Statements for handling:**

P261: Avoid breathing dust.

P264: Wash hands after handling.

P362: Take off contaminated clothing and wash before reuse.

Handle as you would rich, dark soil or compost: keep it out of your mouth, eyes, lungs, and broken skin.

Keep out of reach of children.

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations..

Hazards not otherwise classified (HNOC): Persons with severely suppressed immune systems, such as those with advanced AIDS, or those taking anti-rejection drugs, or those undergoing chemotherapy should contact their physician before handling microbial products.

Unknown acute toxicity: <1% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight % |
|-------------------------------|------------|------------------|
| Cooked oat-based cereal | NA | 50 |
| Maltodextrin | 9050-36-6 | 46 |
| Polyethylene glycol | 25322-68-3 | 3 |
| Precipitated amorphous silica | 7631-86-9 | 1 |
| Bacteria | 68038-70-0 | >1 Billion cfu/g |

4. FIRST AID MEASURES

| | |
|--------------|---|
| Eye Contact | Rinse eyes cautiously with water for several minutes. Remove any contact lenses if easy to do, and continue rinsing. If discomfort or irritation persists contact a physician. |
| Skin Contact | Wash with soap and water. If injury occurs, or if discomfort or irritation persists or rash occurs, contact a physician. |
| Inhalation | If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention. If medical advice is needed, have product container or label on hand. |
| Ingestion | Rinse mouth. Drink Plenty of water. If you feel unwell, call a poison control center or seek medical attention. Do not induce vomiting of an unconscious person. |

Self-protection of the first aider: Microbial product. Use any appropriate personal protective equipment as required to keep product out of your mouth, eyes, lungs, and broken skin. Wash after handling.

Most important symptoms and effects, both acute and delayed: Nuisance dust irritation may occur with nasal discomfort under highly dusty conditions.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms. Consult physician if discomfort or irritation persists. Get medical advice or attention if you feel unwell.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO₂, ABC Dry Chemical extinguisher, or foam. Avoid stirring up dust extinguisher stream.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

Explosion data

Sensitivity to mechanical impact: None
 Sensitivity to static discharge: None

Note: Excessive amounts of any burnable dusts can produce explosive mixtures if allowed to disperse in the air in confined areas where ignition sources occur. Prevent excessive dust dispersal in areas of use, storage, or production.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and standard protective (bunker) gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

| | |
|---------------------------|--|
| Personal Precautions | Use dust mask and gloves as needed or other reasonable personal protective equipment as required to prevent contact with eyes or skin. Remove ignition sources prior to clean-up. |
| Environmental precautions | Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. |
| Methods for containment | Prevent further leakage or spillage, if safe to do so. |
| Methods for clean-up | Use dust mask and/or reasonable personal protective equipment as required to avoid breathing dusts. Moisten or cover powder spill with plastic sheet or tarp to minimize |

spreading. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Soak up excess with inert absorbent material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

- Safe Handling Read and understand all safety precautions before handling. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required to avoid breathing product dusts or mists, and to prevent eye contact. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Handle as you would rich, dark soil or compost: keep it out of your mouth, eyes, lungs, and broken skin.
- Storage Conditions Keep containers tightly closed in a cool, well- ventilated place. Keep out of the reach of children.
- Incompatible materials Avoid strong acids or alkali, or other reactive substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH* |
|----------------|--|--|-----------------|
| Nuisance Dusts | 10 mg/m ³ (TWA- Total dust) | 15 mg/m ³ (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable) | Not Established |

*IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

Other Information:

Engineering controls: Use with adequate ventilation and follow safe work practices to prevent dust buildup in air.

Individual protection measures

Use personal protective equipment as required to avoid breathing product dusts or mists, and to prevent eye contact.

- Eye protection Safety glasses, or goggles if eye contact is likely.
- Skin and Body Protection Gloves and standard work coveralls recommended.
- Respiratory Protection Dust mask recommended for dusty conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
- General Hygiene When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Remove and launder heavily soiled clothing separately before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state Solid
- Appearance Granules
- Color Mixed, various
- Odor Slight
- Odor Threshold No information available
- pH Not applicable
- Melting point/freezing point Not applicable
- Boiling point / boiling range Not applicable

| | |
|------------------------------|--------------------------|
| Flash point | No information available |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Specific Gravity | Not applicable |
| Water solubility | Mostly soluble in water |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Oxidizing properties | Not an oxidizer |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable.

Possibility of Hazardous Reactions

May release heat and fumes when mixed in solution with incompatible reactive materials.

Hazardous polymerization

Will not occur.

Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

Incompatible materials

Strong acids or alkali, or other reactive substances.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NOx), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Ingestion, eyes (contact), skin (contact), dust inhalation

| | |
|--------------------------|---|
| Symptoms | May irritate eyes on contact, or respiratory system if inhaled. |
| Sensitization | Possible, but never reported. |
| Germ cell mutagenicity | None |
| Carcinogenicity | Not listed as carcinogenic. |
| Reproductive toxicity | None |
| STOT - single exposure | No information available |
| STOT - repeated exposure | No information available |
| Chronic toxicity | No information available |
| Target Organ Effects | Lungs-Nuisance dusts |
| Aspiration hazard | No information available |

Persons with severely suppressed immune systems, such as those with advanced AIDS, or those taking anti-rejection drugs, or those undergoing chemotherapy should contact their physician before handling microbial products.

12. ECOLOGICAL INFORMATION

This product is designed for use in natural aquatic environments, and is not ecologically harmful to aquatic or terrestrial life.

| | |
|-------------------------------|--|
| Persistence and degradability | Biodegradeable. |
| Bioaccumulation | Will not bioaccumulate, based on composition. |
| Other adverse effects | Product is not harmful to aquatic or terrestrial life. |

13. DISPOSAL CONSIDERATIONS

This material, as supplied is not a hazardous waste according to federal regulations (40 CFR 261).

Disposal of wastes:

This product is a non-hazardous waste material suitable for approved solid waste landfills.
 No EPA Waste Numbers are applicable for this product’s components.
 Dispose of in accordance with Local, State, and Federal regulations.

Contaminated packaging

No US Federal special packaging considerations at the date of this document. Follow local regulations.

14. TRANSPORT INFORMATION

| | | | |
|-----------------------|----------------|--------------|---------------|
| DOT: | Not Regulated | ADR: | Not Regulated |
| Proper Shipping Name: | Non Regulated | ADN: | Not Regulated |
| Hazard Class: | Not Applicable | RID: | Not Regulated |
| IATA: | Not Regulated | IATA: | Not Regulated |
| Proper Shipping Name: | Non Regulated | TDG: | Not Regulated |
| Hazard Class: | Not Applicable | ICAO: | Not Regulated |
| IMDG/IMO | Not Regulated | MEX: | Not Regulated |
| Hazard Class | Not Applicable | | |
| Marine Pollutant | No | | |

IMDG: Not a dangerous good.
ICAO/IATA: Not a dangerous good.

15. REGULATORY INFORMATION

TSCA (USA): Complies

General Product Information: This product is not federally regulated as a hazardous material.

Clean Air Act: No information is available.

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

SARA 313 Superfund Amendments: This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

SARA 311/312 Hazard Categories

Acute: No
 Chronic: Yes
 Fire: No
 Sudden release of pressure: No
 Reactive: No

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material .

State Regulations – General: This product is not regulated by any State as a hazardous material.
Component Analysis – State None of this product’s components are on the state lists from CA, FL, MA, MN, NJ, or PA.

California Proposition 65: None of this product’s components are on the California Proposition 65 list.

International Inventories

Component Analysis – WHMIS IDL No components are listed in the WHMIS IDL.

16. OTHER INFORMATION

The bacteria contained in this product are strains of typically harmless soil and water bacteria, and are not associated with disease or infections under normal circumstances (Biosafety Level 1). However, reasonable precautions are in order. Handle as you would rich, dark soil or compost: keep it out of your mouth, eyes, lungs, and broken skin. Wash hands after use. Remove and launder heavily soiled clothing separately before reuse. For allergic response, treat symptoms, and contact physician. Persons with severely suppressed immune systems, such as those with advanced AIDS, or those taking anti-rejection drugs, or those undergoing chemotherapy should contact their physician before handling microbial products.

Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.