

# Safety Data Sheet (SDS)

## Section 1: Identification

**Product Name:** Microbiome Boost

**Recommended Use:** Soil amendment for agricultural, garden, and houseplant use

**Restrictions on Use:** Not for human or animal consumption

**Manufacturer/Supplier:**

ElixirGrow Technologies Inc.  
3104 E Camelback Rd #202  
Phoenix AZ 85016  
USA

**Telephone Number:** 915-642-7623

**Emergency Phone Number:** 911

**Email:** info@elixirgrow.com

## Section 2: Hazard(s) Identification

### Classification of the Substance or Mixture

**GHS Classification:** Not classified as hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label Elements

- Pictograms:** None required.
- Signal Word:** None.
- Hazard Statements:**
  - May cause mild eye irritation.
- Precautionary Statements:**
  - Prevention:** Avoid contact with eyes and skin. Wash hands thoroughly after handling.
  - Response:**
    - Eyes:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.
    - Ingestion:** If swallowed, rinse mouth. Drink plenty of water. Seek medical advice if you feel unwell.

### Other Hazards

**Unknown Acute Toxicity:** Not applicable.

## Section 3: Composition/Information on Ingredients

### Substances

**Mixture:** Water-based culture medium with microbial components.

| Component                    | CAS Number     | Concentration (% w/w)              |
|------------------------------|----------------|------------------------------------|
| Water-based culture medium   | Not applicable | >99%                               |
| Desulfooccus multivorans     | Not applicable | <1% (3.0 x 10 <sup>7</sup> CFU/ml) |
| Sulfurospirillum multivorans | Not applicable | <1% (1.0 x 10 <sup>7</sup> CFU/ml) |
| Acidovorax facilis           | Not applicable | <1% (3.0 x 10 <sup>6</sup> CFU/ml) |
| Bacillus licheniformis       | 68038-66-4     | <1% (1.5 x 10 <sup>4</sup> CFU/ml) |
| Bacillus coagulans           | 68038-65-3     | <1% (5.0 x 10 <sup>4</sup> CFU/ml) |
| Lactobacillus buchneri       | 1240468-27-2   | <1% (2.5 x 10 <sup>3</sup> CFU/ml) |
| Pseudomonas fluorescens      | 129078-43-7    | <1% (1.2 x 10 <sup>3</sup> CFU/ml) |
| Lactobacillus plantarum      | 1392-21-8      | <1% (2.5 x 10 <sup>2</sup> CFU/ml) |

\*CFU/ml - Colony Forming Units per Milliliter

## Section 4: First-Aid Measures

### Description of First-Aid Measures

- Inhalation:** If inhaled and discomfort occurs, move to fresh air. Seek medical attention if symptoms persist.
- Skin Contact:** Wash skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. Seek medical advice if irritation develops.
- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.
- Ingestion:** Do not induce vomiting. Rinse mouth thoroughly with water. Drink plenty of water. Seek medical advice if feeling unwell.

### Most Important Symptoms and Effects, Both Acute and Delayed

May cause mild eye and skin irritation.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

## Section 5: Fire-Fighting Measures

### Extinguishing Media

- Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- Unsuitable Extinguishing Media:** None known.

### Special Hazards Arising from the Substance or Mixture

Non-flammable aqueous solution. May produce hazardous decomposition products under fire conditions.

### Advice for Firefighters

- Wear self-contained breathing apparatus and full protective gear if necessary.
- Cool containers with water spray to prevent overheating.

## Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures

- Wear appropriate personal protective equipment (see Section 8).
- Avoid contact with skin and eyes.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains or waterways.

### Methods and Material for Containment and Cleaning Up

- Contain spill with inert absorbent material (e.g., sand, earth).
- Collect and place in suitable, labeled containers for disposal.
- Clean spill area thoroughly with water.

## Section 7: Handling and Storage

### Precautions for Safe Handling

- Avoid contact with eyes and skin.
- Wash hands thoroughly after handling.
- Do not eat, drink, or smoke when using this product.

### Conditions for Safe Storage, Including Any Incompatibilities

- Store in original container tightly closed.
- Keep in a cool, dry place (40°F – 100°F) out of direct sunlight.
- Keep away from incompatible materials (see Section 10).

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

No occupational exposure limits have been established for this product.

### Exposure Controls

#### Engineering Controls

General ventilation is adequate under normal conditions.

#### Personal Protective Equipment

- Eye Protection:** Safety glasses with side shields or goggles.
- Skin Protection:** Protective gloves (e.g., nitrile, rubber).
- Respiratory Protection:** Not required under normal conditions. Use NIOSH-approved respirators if exposure limits are exceeded or irritation occurs.
- Hygiene Measures:** Wash hands and face before breaks and immediately after handling the product.

## Section 9: Physical and Chemical Properties

| Property                                 | Value                       |
|--|-----------------------------|
| Appearance                               | Liquid                      |
| Color                                    | Brownish                    |
| Odor                                     | Mild, earthy odor           |
| Odor Threshold                           | Not determined              |
| pH                                       | 6.5 – 7.5                   |
| Melting Point/Freezing Point             | Approximately 32°F (0°C)    |
| Initial Boiling Point                    | Approximately 212°F (100°C) |
| Flash Point                              | Not applicable              |
| Evaporation Rate                         | Similar to water            |
| Flammability                             | Non-flammable               |
| Upper/Lower Flammability Limits          | Not applicable              |
| Vapor Pressure                           | Similar to water            |
| Vapor Density                            | Similar to water            |
| Relative Density                         | ~1.0 g/cm <sup>3</sup>      |
| Solubility                               | Miscible in water           |
| Partition Coefficient (K <sub>ow</sub> ) | Not determined              |
| Auto-ignition Temperature                | Not applicable              |
| Decomposition Temperature                | Not determined              |
| Viscosity                                | Similar to water            |

## Section 10: Stability and Reactivity

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Extreme temperatures. Avoid freezing and excessive heat.

### Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases.

### Hazardous Decomposition Products

Under fire conditions, may produce hazardous decomposition products such as carbon oxides.

## Section 11: Toxicological Information

### Information on Toxicological Effects

- Acute Toxicity:** Not classified.
- Skin Corrosion/Irritation:** May cause mild skin irritation.
- Serious Eye Damage/Eye Irritation:** May cause mild eye irritation.
- Respiratory or Skin Sensitization:** Not expected to be a sensitizer.
- Germ Cell Mutagenicity:** Not classified.
- Carcinogenicity:** None of the components are listed as carcinogens by IARC, NTP, or OSHA.
- Reproductive Toxicity:** Not classified.
- STOT-Single Exposure:** Not classified.
- STOT-Repeated Exposure:** Not classified.
- Aspiration Hazard:** Not applicable.

## Section 12: Ecological Information

### Toxicity

Not expected to be harmful to the environment at recommended usage levels.

### Persistence and Degradability

Product is biodegradable.

### Bioaccumulative Potential

Not expected to bioaccumulate.

### Mobility in Soil

Miscible in water and likely to be mobile in the environment.

### Other Adverse Effects

None known.

## Section 13: Disposal Considerations

### Waste Treatment Methods

- Product Disposal:** Dispose of contents/container in accordance with local, regional, national, and international regulations.
- Container Disposal:** Triple rinse container prior to disposal. Recycle or dispose of container according to regulations.

## Section 14: Transport Information

### UN Number

Not regulated.

### UN Proper Shipping Name

Not applicable.

### Transport Hazard Class(es)

- DOT:** Not regulated.
- IMDG:** Not regulated.
- IATA:** Not regulated.

### Packing Group

Not applicable.

### Environmental Hazards

**Marine Pollutant:** No.

### Special Precautions for User

None known.

## Section 15: Regulatory Information

### US Federal Regulations

- TSCA Inventory:** All components are listed or exempt.
- SARA Title III Sections:**
  - Section 302 (Extremely Hazardous Substances):** Not applicable.
  - Section 311/312 (Hazard Categories):** Not hazardous.
  - Section 313 (Toxic Chemicals):** Not applicable.

### US State Regulations

**California Proposition 65:** This product does not contain any substances known to the State of California to cause cancer, birth defects, or other reproductive harm.

### International Regulations

- WHMIS Classification (Canada):** Not controlled.
- EU Regulations:** All components are listed or exempted under REACH.

## Section 16: Other Information

### Revision Information

- Date of Preparation:** 10/01/2024
- Revision Number:** 1.0

### Disclaimer

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