## Material Safety Data Sheet

**Product Name:** BIOVIGOR™ Crop Vitalizer - Foliar and Drip Use

### 1. Material Identification

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Chemical Name</th>
<th>Chemical Class</th>
<th>Product Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>LIQUID PLANT NUTRIENT</td>
<td>VEGETABLE HYDROLYSATE</td>
<td>INDIA</td>
</tr>
</tbody>
</table>

**Manufacturer and Distributor**

BIOQUEST TECHNOLOGIES (PVT.) LTD.
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Virudhunagar District, Tamil Nadu, India
+91-98402-57864

### 2. Product Ingredients

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>Percent Range</th>
<th>CAS Numbers</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
<th>NTP/IARC/OSHA</th>
<th>CARCINOGEN</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANT NUTRIENT</td>
<td>100%</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>0%</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 3. Hazards Identification

**Emergency Overview:**

**Physical Properties**
- **Appearance:** Light brown to dark Liquid
- **Odor:** Fermented Organic odor
- **Hazardous Decomposition Products:** None
- **Unusual Fire, Explosion, and Reactivity Hazards:** None

**Potential Health Effects**
- **Acute Effects:** None
- **Symptoms of Acute Exposure:** Not Known
- **Chronic Effects:** Not Known
- **Carcinogenicity:** None of the components is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

### 4. First Aid Measures

**Primary Routes of Exposure:** Inhalation, Ingestion

**Signs and Symptoms of Exposure:**
- **Inhalation:** May give strong odor
- **Ingestion:** May taste sour.

**Emergency First Aid Procedure**
- **If Inhaled:** If inhaled excessive, move to fresh air.
- **If Ingested:** Give more water to dilute. Call a Physician.

### 5. Fire Fighting Measures and Explosion Hazard Data

**Flash Point:** Non flammable
**Auto Ignition Temperature:** Not established
**Fire Extinguishing Media:** Not established
**Special Fire Fighting Procedures:** Follow regular firefighting procedures.

### 6. Accidental Release Measures

**Steps to be Taken if Material is Released or Spilled**
- **General:** Remove spilled material through simple mechanical removal.
- **Specific:** Product is not regulated under RCRA or CERCLA.

### 7. Handling and Storage

**Precautions in Handling:** Do not contaminate water, food, or feed by storage or disposal.
**Storage:** Store in cool, dry place.

### 8. Exposure Controls/Personal Protection

**Ventilation Requirements:**
Normal ventilation is recommended.

**Personal Protective Equipment:**
Regular fertilizer handling care required.

**Manufacturing and Packaging Employees:**
- **Eye/Face:** Routine industrial production cares.
- **Skin Protection:** Use hand gloves.
- **Respiratory Protection:** Normal ventilation is recommended
- **Additional Information:** Wash hands before eating, drinking, chewing gum and using tobacco products.

**Applicators and Handlers:** Regular fertilizer application procedures to be followed.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Light Brown viscous Liquid</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.0-1.05</td>
</tr>
<tr>
<td><strong>Dispersion in Water</strong></td>
<td>Soluble in water</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>5.0-5.5 @ 20 °C</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Fermented organic odor</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Viscous</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>&gt;100 Deg C</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>-1 Deg C</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Unknown</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Stability: Stable at ordinary conditions of use and storage.
Incompatibility: Unknown
Decomposition/ Byproducts: Unknown.
Hazardous Polymerization: Unknown.

11. Toxicological Information

Acute Toxicity/Irritation Studies:
Acute Oral: Unknown
Acute Dermal: Unknown
Acute Inhalation: Unknown
Primary Eye Irritation: Unknown
Skin Sensitization: Unknown

12. Ecological Information

Acute Fish Toxicity (Rainbow Trout): Unknown
Acute Daphnia Immobilization: Unknown
Effect on Birds: Unknown

13. Disposal Considerations

Do not contaminate water, food or feed.

14. Transportation Information

Classification: Not regulated
Maritime Organization: Not regulated
Civil Aviation Organization: Not regulated
Instructions: No special instruction on handling required
Flammability: Non flammable
Transport by Air: Safe for Air Transport

15. Regulatory Information

SARA Title III Classifications
Section 302/304 N/A
Section 311/312 N/A
Section 313 Chemical(s) N/A
Proposition 65
Not Applicable
CERCLA Reportable Quantity (RQ)
Not Applicable
RCRA Classification
Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.
TSCA Status
Not Applicable

16. Other Information

NFPA Hazard Ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Prepared by: BIOQUEST TECHNOLOGIES (PVT.) LTD.

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