



# Safety Data Sheet

## Bio-Activate<sup>®</sup>

### SECTION 1: Product and Company Identification

Product name: Bio-Activate<sup>®</sup>  
Product code: 0221  
Product use: Use of the product to promote plant growth.  
Product type: liquid

Manufacturer: JH Biotech, Inc.,  
4951 Olivas Park Drive, Ventura, CA 93030  
Tel: (805)650-8933 Fax: (805)650-8942  
[info@jhbiotech.com](mailto:info@jhbiotech.com)

Emergency telephone: (800)428-3493 (within the United States)  
(805)650-8933 (outside the United States)

### SECTION 2: Hazards Identification

Contact with eyes or skin may cause irritation. May be harmful if swallowed.

### SECTION 3: Composition/Information on Ingredients

Component	CAS No.
<i>Ascophyllum nodosum</i> (kelp extract)	84775-78-0

### SECTION 4: First Aid Measures

Inhalation: Remove from source of exposure. Get medical attention if necessary.  
Skin contact: Wash thoroughly with soap and water. Get medical attention if necessary.  
Eye contact: Wash eyes with plenty of water for at least 15 minutes. Be sure to remove contact lenses. Get medical attention if necessary.  
Ingestion: Wash out mouth with plenty of water. Do not induce vomiting. Get medical attention if necessary.

### SECTION 5: Firefighting Measures

#### Suitable extinguishing media

Water spray, dry chemical, carbon dioxide, foam

#### Special hazards arising from the substance or mixture

Not available

#### Protection for firefighters

Wear protective clothing and equipment

### SECTION 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Wear protective clothing, gloves, and safety eye goggles.



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### Environmental precautions

Not available

### Methods and material for containment and cleaning up

Contain all spills and leaks to prevent discharge into the environment. If spilled, use appropriate absorbent material to absorb the spilled material and flush spilled area with water.

## SECTION 7: Handling and Storage

### Precautions for safe handling

Avoid overheating or freezing

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed when not in use.

## SECTION 8: Exposure Controls/Personal Protection

### Personal protection

Eye protection: Eye protection is not required. To avoid contact with eyes, use safety eye goggles.

Skin protection: Wear protective clothing as necessary to minimize contact. Use chemical resistant gloves.

Respiratory protection: Not required

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Light yellow liquid
Odor	Marine-like
pH	Not available
Melting point/freezing point	Not available
Boiling point	100 <sup>o</sup> C / 212 <sup>o</sup> F
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.08 g/cc
Solubility	Not available
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available



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Explosive properties	Non explosive
Oxidizing properties	Not available

### SECTION 10: Stability and Reactivity

#### Chemical stability

Product is stable.

#### Possibility of hazardous reactions

Under normal conditions, hazardous reaction will not occur.

#### Conditions to avoid

Avoid heat

#### Incompatible materials

Not available

#### Hazardous decomposition products

No known hazardous decomposition products

### SECTION 11: Toxicological Information

#### Information on toxicological effects

Acute toxicity:	Not available
Irritation:	Not available
Corrosiveness:	Not available
Sensitization:	Not available
Dose toxicity:	Not available
Carcinogenicity:	Not available
Mutagenicity:	Not available
Reproductive toxicity:	Not available

### SECTION 12: Ecological Information

#### Ecotoxicity

Not available

#### Persistence and degradability

Not available

#### Bioaccumulative potential

Not available

#### Mobility in soil

Not available



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### SECTION 13: Disposal Considerations

**Waste treatment methods**

Not hazardous waste. Dispose of product in accordance with regulations.

### SECTION 14: Transport Information

**UN number:** Not available

**UN proper shipping name:** Not available

**Transport hazard class(es):** Not available

**Packing group:** Not available

**Environmental hazards:** Not available

**Special precautions for user:** Not available

### SECTION 15: Regulatory Information

**Safety, health and environmental regulations/legislation specific for the product**

Not available

### SECTION 16: Other Information

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