

## Bio-Treat

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### 1 Identification

#### GHS Product Identifier

Bio-Treat

#### Other means of identification

Turbid, straw-colored, aqueous solution with characteristic odor containing six unique bacilli strains

#### Recommended use of the chemical and restriction on use

This is a biological inoculant to restore naturally occurring organisms to the soil to facilitate delivery of nutrients and assist plant growth. It is a concentrate to be diluted at least 1: 125 for application at the roots of the plant. In hydroponics, drenches and in use with normal irrigation, it is diluted 400: 1. It is not a fertilizer nor designed for foliar application. It can be applied by spray, drip or drench and may be mixed with other plant nutrient products.

#### Supplier's details

Supplier Name	Brighton Industries, Inc. PO Box 51 Northbrook, IL 60062
Supplier Phone	847-772-0395
Supplier Email	info@brightonind.com

#### Emergency phone number

847-772-0395

### 2 Hazard(s) identification

#### Classification of the substance or mixture

This product is not considered hazardous

GHS label elements - NOT REQUIRED

#### Other hazards which do not result in classification

##### Precautionary Statements - Storage

Do not store below freezing, aqueous solutions may freeze, and expansion may result in ruptured containers. Do not store for prolonged periods above 135°F as germ of spores may be neutralized.

##### Hazards not otherwise classified (HNOC)

Individuals may develop allergic reactions or sensitization to skin contact particularly among immune compromised individuals.

Avoid contamination of open cuts or sores, some bacteria may cause wounds to become infected.

### 3 Composition/information on ingredients

Description	CAS	EINECS Number	% Number	Note
		0		

This product is a buffered and preserved aqueous solution of naturally occurring bacterial cultures

## 4 First-aid measures

### Description of necessary first-aid measures

<b>General Advice</b>	Show this safety data sheet to the Doctor in attendance
<b>Eye Contact</b>	Rinse thoroughly with plenty of water! also under eyelids. If symptoms persist! call a physician.
<b>Skin Contact</b>	Wash with soap and water. May cause an allergic skin reaction. In case of skin irritation or allergic reaction! see a physician.
<b>Inhalation of liquid</b>	Remove to fresh air. Monitor for symptoms of pneumonia. Aspiration pneumonia is possible from any inhalation of liquid.
<b>Ingestion</b>	Rinse mouth immediately and drink plenty of water. <i>Never</i> give anything by mouth to an unconscious person.

### Most important symptoms/effects, acute and delayed

Itching! Rashes! Hives

### Indication of immediate medical attention and special treatment needed, if necessary

Sensitization or allergic reactions from susceptible persons! treat symptomatically.

## 5 Fire-fighting measures

### Suitable extinguishing media

Use extinguishing measures appropriate to local circumstances and the surrounding environment.

### Specific hazards arising from the chemical

May result in sensitization by repeated skin contact.

### Special protective actions for fire-fighters

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

## 6 Accidental release measures

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

Personal Precautions Avoid contamination of eating surfaces and utensils. Avoid unnecessary contact with skin. Avoid getting into open cuts or eyes.

### Environmental precautions

Refer to Sections 7 & 8

### Methods and materials for containment and cleaning up

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

**Cleaning up** Pick up and transfer to properly labeled container! soak up with inert absorbent material.

## 7 Handling and storage

### Precautions for safe handling

Do not ingest; protect eyes from contamination with the solution, protect open cuts. Wash clothes soaked or contaminated with the solution.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep container tightly closed. Do not store below freezing. Contains water, freezing may cause containers to rupture. Extended storage at temperatures above 135 degrees F may sterilize the spores.

**Incompatible Products** Strong acids and alkalis, and strong oxidizing agents may react with water in the product and inactivate the bacterial cultures.

## 8 Exposure controls/personal protection

### Control parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### Appropriate engineering controls

Engineering Measures Showers, eyewash stations, ventilation systems

### Individual protection measures

**Eye/Face Protection** None required for consumer use. If splashes likely, wear safety glasses with side-shields

**Skin/Body Protection** None required for consumer use. Repeated and prolonged contact wear protective gloves and clothing.

**Respiratory Protection** No equipment is needed under normal use.

**Hygiene Measures** Follow good industrial hygiene and safety practices. Take off contaminated clothing and wash before reuse.

## 9 Physical and chemical properties

### Physical and chemical properties

Physical State	Liquid
Appearance	Straw-colored
Odor	Characteristic
pH	6.5 - 8.8
Melting/Freezing	No data available
Boiling Point / Range	100°C / 212°F
Flash Point	None
Flammability (solid, gas)	None
Specific Gravity	1.03
Water Solubility	Dispersible
Viscosity	Water-thin
VOC Content	Negligible

## 10 Stability and reactivity

### Reactivity

No data available

**Chemical stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

None under normal processing

**Conditions to avoid**

Storage under freezing conditions. Aqueous solutions may freeze/ expand/ rupturing containers. Do not expose to high temperatures above 13soF for long periods of time. Close container when not in use.

**Incompatible materials**

Strong acids and alkalis/ and strong oxidizing agents may react with aqueous solutions and may inactivate bacterial cultures.

**Hazardous decomposition products**

Carbon oxides

**11 Toxicological information****Toxicological (health) effects**

Itching. Rashes. Hives

**Information on the likely routes of exposure**

Inhalation	Specific test data for the mixture is not available.
Skin Contact contact.	Specific test data for the mixture is not available. May cause sensitization by skin
Eye Contact	Specific test data for the mixture is not available.
Ingestion	Specific test data for the mixture is not available.

**Delayed and immediate effects and chronic effects from short- and long-term exposure**

Sensitization contact.	May cause sensitization in susceptible persons. May cause sensitization to skin
Mutagenic Effects	No information available
Carcinogenicity	Contains no known carcinogen

**Numerical measures of toxicity (such as acute toxicity estimates)**

Not applicable

**12 Ecological information****Toxicity**

This product is composed of naturally occurring, spore-forming, non-pathogenic bacilli found in nature. As spore forming organisms, their presence and distribution is assumed to be global. The product is not expected to be dangerous to the environment with respect to mobility, persistency, and biodegradability; bio-accumulative potential, aquatic toxicity and other data related to eco-toxicity.

**Other adverse effects**

None Known

**13 Disposal considerations****Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal Regulation (40 CFR 261). The material could become a hazardous waste if mixed with or otherwise contaminated with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult pertinent regulations to determine if the altered material is a hazardous waste.

Dispose of contaminated contents / containers in accordance with local regulations.

**14 Transport information****UN Number**

N/A

**UN Proper Shipping Name**

Not Regulated

**Transport hazard class(es)**

N/A

TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

**15 Regulatory information****Safety, health, and environmental regulations specific for the product in question****International Inventories**

<b>TSCAX</b>	Complies
<b>DSL</b> <sup>xx</sup>	Not all biological components are listed on the DSL
x	TSCA - United States Toxic Substances Control Act - Section 8(b) Inventory
xx	DSL - Canadian Domestic Substances List

**US Federal Regulations**

**SARA 31** - This product does not contain an ingredient reportable under Section 313, Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA)

CWA (Clean Water Act) - Contains no substance regulated under CWA (40 CFR 122.21 and 122.42)

CERCLA (Comprehensive Environment Response and Liability ACT - 40 CFR 302) Contains no ingredient regulated as hazardous per CERCLA or SARA (40 CFR 355)

California Proposition 65 - Contains no Proposition 65 chemicals

US State Right-to-Know Regulations - Contains no substances above the threshold limits regulated by State right-to-know

## 16 Other information

### Other information

#### Hazardous Material Information System

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

#### Additional Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and belief at the time of publication; however, no guarantee is made to its accuracy. The information relates to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.