

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: March 3, 2020

Revision Date: 12/6/2017

**Product Identifier: BushDoctor Microbe Brew****SECTION 1: IDENTIFICATION****Product Identifier:** BushDoctor Microbe Brew**Product Description:** Liquid plant food activator

**Manufacturer:** United Compost & Organics  
dba FoxFarm Soil & Fertilizer Company  
PO Box 787, Arcata, CA 95518  
1900 Bendixsen Street, Samoa, CA 95564  
foxfarm@foxfarm.com  
(800) 436-9327 or (707) 443-4369 for product information  
www.foxfarm.com

**Emergency Telephone Number:** (707) 443-4369, M-F 8:30am–5:00pm PST.**SECTION 2: HAZARD(S) IDENTIFICATION****Classifications:**

Flammability – n/a (inherently noncombustible)  
Health – Category 5 (irritation or minor reversible injury possible)  
Instability/Reactivity – n/a (stable)

**Pictograms:**

n/a

**Signal Word:**

Warning

**Hazard Statements:**

H315 May cause skin irritation  
H320 May cause eye irritation

**Precautionary Statements:**

P102 Keep out of reach of children  
P261 Avoid breathing mist or spray  
P262 Do not get in eyes, on skin, or on clothing  
P264 Wash skin thoroughly after handling  
P280 Wear protective gloves, eye protection, and face protection

**Storage:**

Avoid overheating or freezing.

**Disposal:**

Dispose of contents/containers in accordance with federal, state, and local regulations.

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**Product Identifier: BushDoctor Microbe Brew****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Chemical Characterization:** Mixture**Description:** Mixture of the substances listed below with nonhazardous additions.

| Component                    | CAS Number | %            |
|------------------------------|------------|--------------|
| Marine algae                 | n/a        | Trade secret |
| Earthworm castings           | n/a        | Trade secret |
| Bat guano                    | n/a        | Trade secret |
| Seabird guano                | n/a        | Trade secret |
| Rock phosphate               | n/a        | Trade secret |
| Copper sulfate               | 7758-99-8  | Trade secret |
| Ferrous sulfate              | 7720-78-7  | Trade secret |
| Magnesium sulfate            | 74887-88-9 | Trade secret |
| Manganese sulfate            | 7785-87-7  | Trade secret |
| Sodium borate                | 12280-03-4 | Trade secret |
| Zinc sulfate                 | 7733-02-0  | Trade secret |
| Citric acid                  | 77-92-9    | Trade secret |
| Molasses                     | 68476-78-8 | Trade secret |
| Hydrolyzed vegetable protein | n/a        | Trade secret |

**SECTION 4: FIRST-AID MEASURES****Inhalation:**

If vapors or mist cause irritation or distress, remove to fresh air.

**Skin Contact:**

Thoroughly wash off skin with water. Wash contaminated clothing before re-use.

**Eye Contact:**

Immediately flush eyes with large amounts of water. Remove contact lenses.

**Ingestion:**

If swallowed, drink plenty of water. Do not induce vomiting. Consult a physician immediately.

**Notes to Physician:**

Symptoms: May cause minor irritation, redness, and/or burning to the eyes. Prolonged exposure to the eyes may cause conjunctivitis. Dermal exposure may cause irritation, redness, and/or burning. Prolonged exposure to the skin may cause dermatitis. Ingestion may cause abdominal cramps, nausea, vomiting, and/or diarrhea. Inhalation may cause upper respiratory tract irritation.

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**Product Identifier: BushDoctor Microbe Brew****SECTION 5: FIRE-FIGHTING MEASURES****Suitable Extinguishing Media:**

Material is non-combustible.

**Specific Hazards During Fire Fighting:**

No further relevant information available.

**Special Protective Equipment for Fire Fighters:**

No special measures required.

**Further Information:**

No further relevant information available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Avoid contact with skin and eyes. Avoid inhaling mist. Keep unprotected persons away.

**Protective Equipment:**

Wear gloves and face protection as necessary.

**Environmental Precautions:**

Avoid discharge into the environment. After containment and cleanup, flush and dilute spilled area with water.

**Methods of Containment and Cleanup**

Surround spill with containment berms to prevent spreading. Use appropriate absorbent material to absorb the spilled material. Flush spilled area with water.

**SECTION 7: HANDLING AND STORAGE****Precautions for Safe Handling:**

Wear personal protective equipment as necessary. Emergency eye wash stations should be in the near proximity to operations presenting a potential splash exposure. Avoid repeated and/or prolonged skin exposure.

**Conditions for Safe Storage, Including Incompatibilities:**

No further relevant information.

**Further Information:**

Use good personal hygiene practices. These materials are made from natural products and may contain naturally occurring and/or inoculated microorganisms. Proper precautions are



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advised to prevent infection of open wounds. The proper hygiene practices necessary to prevent health hazards from any naturally occurring substance such as guanos, etc. should be observed.

#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Components with Occupational Exposure Limits** (lists that were valid at creation used as basis):

| Component         | CAS Number | Type         | Value                        |
|-------------------|------------|--------------|------------------------------|
| Copper sulfate    | 7758-99-8  | ACGIH (TWA)  | 1mg/m <sup>3</sup> (as Cu)   |
|                   |            | OSHA (PEL)   | 1mg/m <sup>3</sup> (as Cu)   |
| Ferrous sulfate   | 7720-78-7  | ACGIH (TLV)  | 1mg/m <sup>3</sup>           |
|                   |            | NIOSH (REL)  | 1mg/m <sup>3</sup>           |
| Manganese sulfate | 7785-87-7  | ACGIH (TWA)  | 0.2mg/m <sup>3</sup> (as Mn) |
|                   |            | OSHA (PEL)   | 5mg/m <sup>3</sup> (as Mn)   |
|                   |            | NIOSH (TWA)  | 1mg/m <sup>3</sup> (as Mn)   |
|                   |            | NIOSH (IDLH) | 500mg/m <sup>3</sup> (as Mn) |

#### **Personal Protective Equipment (PPE)**

##### **Engineering Measures:**

No further relevant information available.

##### **Eye Protection:**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying. Ensure that eyewash stations are close to the workstation.

##### **Hand Protection:**

To prevent skin contact wear water resistant gloves, such as those constructed of nitrile.

##### **Skin and Body Protection:**

Wear protective clothing to prevent skin contact. Promptly remove contaminated clothing and launder before re-use.

##### **Respiratory Protection:**

No special equipment required. Avoid fine spray/mist through proper handling. Avoid breathing mist.

##### **General Protective and Hygienic Practices:**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Avoid repeated and/or prolonged skin exposure. Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

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**Product Identifier: BushDoctor Microbe Brew****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** Brown liquid**Odor:** Slightly sweet, earthy odor**Odor Threshold:** Not determined**pH:** 2.60-3.60**Specific Gravity (Relative Density):** 1.090-1.122**Solubility:** Soluble**Melting Point/Freezing Point:** 0 °C (32 °F)**Initial Boiling Point and Boiling Range:** 100 °C (212 °F)**Danger of Explosion:** Material does not present an explosion hazard.**Flammability:** n/a**Flash Point:** n/a**Auto-Ignition Temperature:** Material is not self-igniting.**Decomposition Temperature:** Not determined.**Vapor Pressure:** Not determined.**Vapor Density:** Not determined.**Evaporation Rate:** Not determined.**Viscosity:** Not determined.**Partition Coefficient (n-octanol/water):** Not determined.**SECTION 10: STABILITY AND REACTIVITY****Reactivity:** No further relevant information.**Chemical Stability:** Material is stable under normal conditions.

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**Product Identifier: BushDoctor Microbe Brew****Possibility of Hazardous Reactions:** No dangerous reactions known.**Hazardous Decomposition:** No dangerous decomposition products known.**Conditions to Avoid:** No further relevant information.**Incompatible Materials:** Strong acids of pH 2 and lower, and bases of pH 9 and higher.**SECTION 11: TOXICOLOGICAL INFORMATION****Acute Toxicity****Relevant Numerical Measure of Toxicity:**

n/a

**Likely Routes of Exposure:**

Ingestion

**Immediate Exposure Effects:**

May experience nausea, vomiting, and abdominal cramps.

**Delayed Exposure Effects:**

May experience nausea, vomiting, abdominal cramps, and diarrhea.

**Symptoms of Exposure:**

Ingestion may cause nausea, vomiting, abdominal cramps, and diarrhea. Other symptoms may include dryness of mouth and throat, thirst and metallic taste.

**Chronic Toxicity****Relevant Numerical Measure of Toxicity:**

n/a

**Likely Routes of Exposure:**

Inhalation, Dermal.

**Immediate Exposure Effects:**

Inhalation: May cause upper respiratory irritation or pulmonary effects.

Dermal: May cause irritation, redness, and/or burning.

**Delayed Exposure Effects:**

None anticipated.

**Symptoms of Exposure:**

Inhalation: May cause upper respiratory irritation or pulmonary effects.

Dermal: May cause irritation, redness, and/or burning. Prolonged exposure may cause dermatitis.

**Carcinogenic Categories****IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NTP (National Toxicology Program):**

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None of the ingredients are listed.

**OSHA (Occupational Health & Safety Administration):**

None of the ingredients are listed.

**SECTION 12: ECOLOGICAL INFORMATION****General Notes:**

Copper sulfate (7758-99-8) is toxic to aquatic life. Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state regulations.

**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal:**

Dispose of container and unused contents in accordance with federal, state and local requirements.

**Further Information:**

Do not dispose of in sewage system.

**SECTION 14: TRANSPORT INFORMATION****General Notes:**

Not regulated for transport.

**SECTION 15: REGULATORY INFORMATION****OSHA Hazards**

Copper sulfate 7758-99-8, toxic by ingestion, irritant  
Ferrous sulfate 7720-78-7, toxic by ingestion, irritant

**TSCA (Toxic Substances Control Act)**

Magnesium sulfate 7487-88-9 is listed on the inventory.  
Manganese sulfate 7785-87-7 is listed on the inventory.  
Zinc sulfate 7733-02-0 is listed on the inventory.

**California Prop. 65**

None of the ingredients are listed.

**SARA Hazards**

313: Copper sulfate 7758-99-8; Manganese sulfate 7785-87-7; Zinc sulfate 7733-02-0  
311/312: Copper sulfate, acute health hazard, chronic health hazard



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**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value Established by ACGIH)**

Ferrous sulfate 7720-78-7

**NIOSH (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**SECTION 16: OTHER INFORMATION**

The information and recommendations provided in this Safety Data Sheet are accurate 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. 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. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship.