



**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: 08/01/2017

**Product Identifier:** BushDoctor Manganese

**SECTION 1: IDENTIFICATION**

**Product Identifier:** BushDoctor Manganese

**Product Description:** Liquid Micronutrient Fertilizer

**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 – n/a (no significant risk to health)

Instability/Reactivity – n/a (stable)

**Pictograms:**

n/a

**Signal Word:**

n/a

**Hazard Statements:**

H303 May be harmful if swallowed.

**Precautionary Statements:**

P102 Keep out of reach of children

P264 Wash skin thoroughly after handling

**Storage:**

Store in a safe manner. Avoid overheating or freezing.

**Disposal:**

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

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Characterization:** Mixture



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Component	CAS Number	%
Manganese sulfate	10034-96-5	Trade secret
Soy protein hydrolysate	68607-88-5	Trade secret

The specific identity and/or exact percentages of composition is not provided because it is a trade secret. Product is not considered hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### SECTION 4: FIRST-AID MEASURES

**Inhalation:**

If vapors or mist cause irritation or distress, remove to fresh air. Seek medical attention if necessary.

**Skin Contact:**

Thoroughly wash off skin with soap and water. Wash contaminated clothing before re-use. Seek medical attention if necessary.

**Eye Contact:**

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Seek medical attention if necessary.

**Ingestion:**

Rinse mouth with plenty of water. Do not induce vomiting. Seek medical attention if necessary.

**Notes to Physician:**

No further relevant information available.

#### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Water spray, dry chemical, carbon dioxide, foam.

**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.



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid contact with skin and eyes. Avoid inhaling mist. Wear protective clothing, gloves, and safety goggles if necessary.

**Protective Equipment:**

Respiratory and eye protection is not required. To avoid contact with eyes, use safety goggles. Wear approved respiratory equipment if necessary. Wear protective clothing as necessary to minimize contact. Use chemical resistant gloves.

**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, or recover material and use it for its intended purpose.

#### 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. Avoid overheating or freezing.

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

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

**Further Information:**

Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

#### 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
n/a	n/a	n/a	n/a

**Personal Protective Equipment (PPE)**

**Engineering Measures:**

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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 chemical 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. Wear approved respiratory equipment if necessary.

**General Protective and Hygienic Practices:**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash 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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** Brown liquid**Odor:** No offensive odor**Odor Threshold:** Not determined**pH:** 3.5 - 4.0**Specific Gravity (Relative Density):** 1.20**Solubility:** Soluble**Melting Point/Freezing Point:** 0 °C (32 °F)**Initial Boiling Point and Boiling Range:** 100 °C (212 °F)**Danger of Explosion:** n/a



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**Flammability:** Non-flammable

**Flash Point:** n/a

**Auto-Ignition Temperature:** n/a

**Decomposition Temperature:** n/a

**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:** None.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous Reactions:** No dangerous reactions known.

**Hazardous Decomposition:** No dangerous decomposition products known.

**Conditions to Avoid:** Avoid heat.

**Incompatible Materials:** High pH chemicals

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Relevant Numerical Measure of Toxicity:**

n/a

**Likely Routes of Exposure:**

Eyes, skin, ingestion.

**Immediate Exposure Effects:**

May cause eye irritation. May cause skin irritation. May be harmful if swallowed.

**Delayed Exposure Effects:**

None expected



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**Symptoms of Exposure:**

May cause eye irritation.

**Chronic Toxicity**

**Relevant Numerical Measure of Toxicity:**

n/a

**Likely Routes of Exposure:**

Eyes, skin, ingestion.

**Immediate Exposure Effects:**

May cause eye irritation. May cause skin irritation. May be harmful if swallowed.

**Delayed Exposure Effects:**

None anticipated.

**Symptoms of Exposure:**

May cause eye irritation.

**Carcinogenic Categories**

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

None of the ingredients are listed.

**NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

**SECTION 12: ECOLOGICAL INFORMATION**

**General Notes:**

Not considered hazardous. Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state regulations.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal:**

Not hazardous waste. 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:**



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Not regulated for transport.

**SECTION 15: REGULATORY INFORMATION**

**OSHA Hazards**

Subject to "Right-To-Know" legislation in the following states:

New Jersey: Manganese sulfate (10034-96-5)

Pennsylvania: Manganese sulfate (10034-96-5)

**TSCA (Toxic Substances Control Act)**

None of the ingredients are listed.

**California Prop. 65**

None of the ingredients are listed.

**SARA Hazards**

Manganese sulfate (10034-96-5) is subject to reporting levels established by SARA Title III, Section 313.

**EPA (Environmental Protection Agency)**

Manganese sulfate (10034-96-5) is listed under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA)

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

None of the ingredients are listed.

**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.