



Safety Data Sheet (SDS)

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

Printing Date: September 15, 2023

Revision Date: 9/25/2018

Product Identifier: Cultivation Nation Micro

SECTION 1: IDENTIFICATION

Product Identifier: Cultivation Nation Micro

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

Pictograms:

n/a

Signal Word:

Warning

Hazard Statements:

H303 May be harmful if swallowed
H316 Causes Mild Skin Irritation
H320 Causes 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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Component	CAS Number	%
Ammonium molybdate	12027-67-7	Trade secret
Ammonium nitrate	6484-52-2	Trade secret
Boric Acid	10043-35-3	Trade secret
Calcium carbonate	471-34-1	Trade secret
Calcium nitrate	10124-37-5	Trade secret
Cobalt nitrate	10141-05-6	Trade secret
Copper EDTA	14025-15-1	Trade secret
Iron DTPA	19529-38-5	Trade secret
Iron EDTA	17099-81-9	Trade secret
Iron EDDHA	16455-61-1	Trade secret
Manganese EDTA	55448-20-9	Trade secret
Potassium borate	12712-38-8	Trade secret
Potassium nitrate	7757-79-1	Trade secret
Zinc EDTA	14025-21-9	Trade secret

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

If mist causes 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. Call a Poison Center or consult a physician immediately.

Notes to Physician:

Symptoms: May cause irritation, redness, and/or burning to the eyes. Prolonged exposure to the eyes may cause conjunctivitis or serious eye damage. 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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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 further relevant information available.

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

Methods of Containment and Cleanup

Use appropriate containment methods to prevent spreading. Use absorbent material and collect into an appropriate container. Dispose of contents and container in accordance with regulations. Flush spilled area with water. Spilled uncontaminated solution may be applied to plants or land as a fertilizer according to package directions.

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 eye exposure. Avoid skin exposure. Avoid breathing mist.

Conditions for Safe Storage, Including Incompatibilities:

Incompatible Materials: Strong acids or bases, halogens, chlorinated compounds, hydrogen peroxides.



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Store at ambient temperature in a dry location.

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
Ammonium molybdate	12027-67-7	ACGIH – TWA	15mg/m ³ (dust)
Boric acid	10043-35-3	ACGIH – TWA	2mg/m ³
Calcium carbonate	471-34-1	ACGIH – TLV	10mg/m ³ (dust)
Copper EDTA	14025-15-1	ACGIH – TWA	1mg/m ³
Cobalt nitrate	10141-05-6	OSHA – PEL	0.1mg/m ³ (as Co dust)
Potassium borate	12712-38-8	ACGIH – TWA	15mg/m ³ (dust)

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 exposure or splash. 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 breathing mist.

General Protective and Hygienic Practices:

Emergency eye wash capability should be available in the near proximity to operations presenting a potential eye 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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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odor:

Odor Threshold: Not determined

pH:

Specific Gravity (Relative Density):

Solubility: Miscible

Melting Point/Freezing Point: Not determined.

Initial Boiling Point and Boiling Range: Not determined.

Danger of Explosion: Material does not present an explosion hazard.

Flammability: Material is not flammable.

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 and use.

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Product Identifier: Cultivation Nation Micro**Possibility of Hazardous Reactions:** No dangerous reactions known.**Hazardous Decomposition:** Oxides of nitrogen, oxides of phosphorus, oxides of potassium, ammonia.**Conditions to Avoid:** Extreme temperatures, open flames.**Incompatible Materials:** Strong acids and bases, halogens, chlorinated compounds, hydrogen peroxides.**SECTION 11: TOXICOLOGICAL INFORMATION****Acute Toxicity****Relevant Numerical Measure of Toxicity:**

- Ammonium molybdate: LD₅₀ (oral, rat) – >2,000mg/kg;
- Ammonium nitrate: LD₅₀ (oral, rat) – 2,217mg/kg;
- Boric acid: LD₅₀ (oral, rat) – 2,660mg/kg;
- Calcium carbonate: LD₅₀ (oral, rat) – 6,450mg/kg;
- Calcium nitrate: LD₅₀ (oral, rat) – >2,000mg/kg; LD₅₀ (dermal, rabbit) – >5,000mg/kg
- Cobalt nitrate: LD₅₀ (oral, rat) – 434mg/kg;
- Copper EDTA: LD₅₀ (oral, rat) – 2,000mg/kg;
- Potassium nitrate: LD₅₀ (oral, rat) – 3,015mg/kg; LD₅₀ (dermal, rat) – >2,000mg/kg

Likely Routes of Exposure:

Eye contact, skin contact. Ingestion and inhalation are not expected to be a likely route of exposure through normal product use.

Immediate Exposure Effects:

- Eye contact: May cause irritation, redness, and/or burning.
- Skin contact: May cause irritation, redness, and/or burning.
- Inhalation: May cause upper respiratory irritation.
- Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth, throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

- Skin and/or Eye contact: May cause irritation, redness, and/or burning.
- Inhalation: May cause upper respiratory irritation or pulmonary effects.
- Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

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

No delayed or chronic effects from short- or long-term exposures are known.

Likely Routes of Exposure:



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Eye contact, skin contact, inhalation. Ingestion is not expected to be a likely route of exposure through normal product use.

Immediate Exposure Effects:

Eye contact: May cause irritation, redness, and/or burning.

Skin contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation.

Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth, throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

Skin and/or Eye contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation or pulmonary effects.

Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

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.

ACGIH (American Conference of Governmental Industrial Hygienists)

Boric acid is listed.

OSHA (Occupational Health & Safety Administration):

None of the ingredients are listed.

SECTION 12: ECOLOGICAL INFORMATION

General Notes:

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state regulations. Large quantities of fertilizer released into the environment may kill aquatic plants and animals and cause algae blooms if bodies of water are contaminated.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal:

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

Further Information:

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Do not dispose of in sewage system.

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

Not regulated for transport.

SECTION 15: REGULATORY INFORMATION**OSHA Hazards**

Ammonium nitrate, boric acid is hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

TSCA (Toxic Substances Control Act)

Ammonium molybdate, ammonium nitrate, boric acid, calcium carbonate, cobalt nitrate are listed in the TSCA inventory.

California Prop. 65

None of the ingredients are listed.

SARA Hazards

This product contains substances considered, under applicable definitions, to meet the following categories: Acute, chronic, reactive.

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value Established by ACGIH)Calcium carbonate, 471-34-1, 10mg/m³ (dust)**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



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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.