

SAFETY DATA SHEET (SDS)

SECTION 1: IDENTIFICATION

- **Product Name:** Blue Terra Minors Blend
- **Recommended Use:** agricultural micronutrient
- **Manufacturer:** MarVista Resources
- 745 North Ave.
- Corcoran, Ca. 93212 - USA
- T 559-992-4535
- **Emergency Phone Number:** 24 Hour Emergency Response Chemtrec: 1-800-424-9300

SECTION 2: HAZARD IDENTIFICATION

- **Classification of the Substance/Mixture:**
 - Skin Corrosion/Irritation: Category 1A
 - Serious Eye Damage/Irritation: Category 1
 - Acute Toxicity, Oral: Category 4
 - Specific Target Organ Toxicity (Single Exposure): Category 3
 - Aquatic Toxicity (Acute): Category 3
- **Label Elements:**
 - **Signal Word:** Danger
 - **Hazard Statements:**
 - H314: Causes severe skin burns and eye damage
 - H302: Harmful if swallowed
 - H335: May cause respiratory irritation
 - H402: Harmful to aquatic life
 - **Precautionary Statements:**
 - P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 - P280: Wear protective gloves/protective clothing/eye protection/face protection.
 - P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310: Immediately call a POISON CENTER or doctor/physician.
 - P273: Avoid release to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration (%)
Copper(II) Nitrate	10031-43-3	1.5-1.9%
Zinc Nitrate	7779-88-6	10-11%

Chemical Name	CAS Number	Concentration (%)
Manganese(II) Nitrate	10377-66-9	15-17%
Magnesium Nitrate	13446-18-9	2-3.5%
Dipotassium Phosphate	7758-11-4	2-3%
Other Components	-	Balance

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move to fresh air. If breathing is difficult, provide oxygen. Seek medical attention if symptoms persist.
- **Skin Contact:** Immediately remove contaminated clothing. Wash affected area with plenty of water for at least 15 minutes. Seek medical attention immediately.
- **Eye Contact:** Rinse thoroughly with water for at least 15 minutes, holding eyelids open. Seek immediate medical attention.
- **Ingestion:** Do not induce vomiting. Rinse mouth with water. Seek medical attention immediately.

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or CO₂.
- **Unsuitable Extinguishing Media:** None known.
- **Special Hazards Arising from the Chemical:** May release toxic fumes of nitrogen oxides, metal oxides, and phosphorus oxides.
- **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear appropriate protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate groundwater or enter the sewage system.
- **Methods for Cleanup:** Neutralize spill with an appropriate neutralizing agent. Absorb with inert material and place in appropriate containers for disposal. Wash spill area thoroughly with water after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

- **Handling:** Handle in a well-ventilated area. Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or mist.
- **Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Store away from incompatible materials (e.g., strong bases, reducing agents).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Occupational Exposure Limits:** None established specifically for the mixture.
- **Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:**
 - **Eye Protection:** Chemical splash goggles or face shield.
 - **Skin Protection:** Chemical-resistant gloves and protective clothing.
 - **Respiratory Protection:** If ventilation is inadequate, use a suitable respirator.
 - **Other Protective Equipment:** Emergency eye wash and safety shower should be available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Light blue/blue solution
- **Odor:** Odorless
- **pH:** 0 (Strongly acidic)
- **Melting Point/Freezing Point:** Not applicable
- **Boiling Point:** >100°C
- **Flash Point:** Not applicable
- **Solubility:** Soluble in water
- **Density:** Approximately 1.392 g/cm³

SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** Reacts with bases and reducing agents.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** Reacts with metals to produce hydrogen gas, which is flammable.
- **Conditions to Avoid:** Excessive heat, incompatible materials.
- **Incompatible Materials:** Strong bases, reducing agents, metals.
- **Hazardous Decomposition Products:** Nitrogen oxides, metal oxides, phosphorus oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Harmful if swallowed.
- **Skin Corrosion/Irritation:** Causes severe skin burns.
- **Serious Eye Damage/Irritation:** Causes serious eye damage.
- **Respiratory or Skin Sensitization:** May cause respiratory irritation.
- **Carcinogenicity:** No component of this product is identified as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

- **Toxicity:** Harmful to aquatic life.
- **Persistence and Degradability:** Not readily biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.
- **Mobility in Soil:** Expected to be highly mobile in soil.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal Methods:** Neutralize with a suitable agent before disposal. Dispose of in accordance with local, regional, and national regulations. Do not discharge into waterways or sewer systems.

SECTION 14: TRANSPORT INFORMATION

- **UN Number:** UN3264
- **Proper Shipping Name:** Corrosive liquid, acidic, inorganic, n.o.s. (contains nitric acid)
- **Transport Hazard Class:** 8 (Corrosive)
- **Packing Group:** II
- **Environmental Hazards:** Harmful to aquatic life; avoid release to the environment.

SECTION 15: REGULATORY INFORMATION

- **US Federal Regulations:**
 - CERCLA: This product does not contain any substances regulated under CERCLA.
 - SARA Title III:
 - Section 311/312: Acute Health Hazard
 - Section 313: Zinc Nitrate, Copper(II) Nitrate (reportable)
- **State Regulations:** No additional information

SECTION 16: OTHER INFORMATION

- **Preparation Date:** 08/26/2024
- **Revision Date:** 08/26/2024
- **Revision Number:** 1