



**PRODUCT: BioNutrients Bundle**

**1. PRODUCT INFORMATION**

**Formula:** 21-10-10+ Oppenheimer Bioremediation Special Formula

**Chemical Family:** Inorganic Salts

**NFPA Ratings:** Health: 2, Fire: 0, Reactivity: 1

**Hazard Scale:** 0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

**2. HAZARDOUS INGREDIENTS**

<b>Ingredients:</b>	<b>CAS#:</b>	<b>Ingredients:</b>	<b>CAS#:</b>
Ammonium Nitrate	6484-52-2	Ammonium Phosphate (nonhazardous)	7722-76-1
Potassium Nitrate	7757-79-1	Ammonium Sulphate (nonhazardous)	7783-20-2

**3. HEALTH HAZARDS INFORMATION**

**Potential health hazards:**

Eye Exposure - May cause minor eye irritation.

Skin Absorption - May cause minor skin irritation.

Ingestion - Possible nausea, vomiting, diarrhea.

Inhalation - Prolonged or excessive inhalation may cause respiratory tract irritation.

**Summary of Risks:**

Prolonged or repeated contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs.

Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury.

Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

**4. FIRST AID PROCEDURES**

**Eyes:** Immediately flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.

**Ingestion:** Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water, then induce vomiting with caution. Call a physician.

**Skin:** Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash with soap and water.

**Inhalation:** Remove person to fresh air. Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media:** Water fog or spray.

**Hazardous Combustion Products:** Ammonia, oxides of carbon, nitrogen, and other metal oxides.

**Explosion Hazards:** Dusts at sufficient concentrations may form explosive mixtures with air.

**Fire Fighting Procedures:** Evacuate area. Flood with water to cool containers. Apply water from a safe distance to avoid splattering of molten material. Wear self-contained breathing apparatus to fight fire.

**Fire Fighting Equipment:** Wear self-contained breathing apparatus to fight large fires.

**Flash Point:** Decomposes on heating.

**Comment:** NFPA 430 Classification – 1 Oxidizer

**6. ACCIDENTAL RELEASE MEASURES**

**General Procedures:** Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state, or federal regulations. Keep spills away from drinking water supplies. After spill, flush area with water.

**7. HANDLING AND STORAGE**

KEEP OUT OF REACH OF CHILDREN

Handling: **See Label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds.**

**Storage:** Avoid container breakage. Store in a cool, dry area in closed container or package. Keep away from feed or foodstuffs.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Bionutrients sds – updated January 2023

**Engineering Controls:** Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

**Personal Protective Equipment:**

**Eyes and Face:** Eye and face protection is not required for routine use. High airborne dust levels or mist of product dissolved in liquid may be irritating – use chemical goggles.

**Skin:** None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.

**Respiratory:** If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dust, mist, and fumes to reduce exposures to acceptable levels.

**Other Use Precautions:** Running water or eye wash station should be available in case material gets in eyes. 9.

**PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid

**Appearance:** Crystals

**Color:** Light blue

**Solubility in Water:** Typically 80-85% for water soluble fertilizers

**Density:** 60 - 63 lbs/cu ft

**10. STABILITY AND REACTIVITY**

**Stable:** Yes

**Hazardous Polymerization:** No

**Conditions to Avoid:** Extreme heat. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Strong reducing agents.

**Hazardous Decomposition Products:** In a fire, ammonia and toxic oxides of nitrogen, carbon, potassium and sulfur may be generated.

**Incompatible Materials:** Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, sodium nitrate and many chlorine compounds (including household bleach and other cleaning products). Active metals, such as aluminum and magnesium.

**11. TOXICOLOGICAL INFORMATION**

**Carcinogenicity:** IRCA – No      NTP – No      OSHA - No

**12. ECOLOGICAL INFORMATION**

Apply as fertilizer to field.

**13. DISPOSAL CONSIDERATIONS**

If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT (Department of Transportation)**

**Proper Shipping Name:** Not DOT regulated.

**Other Shipping Information:** The transportation information shown may not apply to all shipping situations. Consult 49 CFR, or appropriate Dangerous Goods Regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping regulations.

**15. REGULATORY INFORMATION**

**General Comments:** Contact local authorities for proper disposal of large quantities of unused fertilizers.

**16. OTHER INFORMATION**

Other information, including date of preparation or last revision - Issue date    January 2023      Version #2

Further information: This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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