



## Material Safety Data Sheet

### MacroGro™ 2109

### Wastewater Nutrient Blend

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Effective date of MSDS: 05-16-08

Emergency Phone: 1-800-424-9300  
(CHEMTREC)

### Product Identification

**Chemical Name:** Wastewater nutrient blend  
**Trade Name:** MacroGro 2109  
**Derived from:** Aqueous solution of ammonium nitrate, urea, & ammonium polyphosphate

**Chemical Formula:**  $\text{NH}_4\text{NO}_3$ ,  $\text{CH}_4\text{N}_2\text{O}$ ,  $\text{NH}_4(\text{PO}_4)_n$   
**CAS Number:** 6484-52-2  
**Composition:** Nitrogen - 21%, as N  
Phosphorus - 9%, as  $\text{P}_2\text{O}_5$   
**NFPA and HMIS code:** 1-0-0

### Physical Properties

Product	<u>2109</u>
pH (typical)	6.5-7.2
Specific Gravity (@ 60°F)	1.2
Density (lb/gal)	10.8

**Appearance:** Light green to amber liquid  
**Odor:** Slight ammonia odor  
**Boiling Point:** > 212°F

**Vapor Pressure:** NA  
**Vapor Density:** NA  
**Solubility in Water:** 100%

### Reactivity

**Stability:** Completely stable  
**Incompatibility Material to avoid:** NA  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** NA

### First Aid

**Eyes:** Flush eyes immediately and thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.  
**Skin:** Flush skin immediately with water. If irritation persists, seek medical attention.  
**Ingestion:** Give large quantities of water, induce vomiting, consult a physician promptly.  
**Inhalation:** Not considered an inhalation hazard.

## **Hazard Data**

### **Health**

**Air:** None established

**Biological:** None established

**Unusual chronic toxicity:** None reported, none suspected

### **Personal Protection**

**Respiratory protection:** Respirators are not required under normally ventilated conditions.

**Eyes & face:** Safety glasses are recommended.

**Hands, arms, and body:** Rubber coated gloves and clothing recommended if prolonged or repeated exposure of skin to liquid.

**Other clothing / equipment:** Not generally required.

### **Fire**

**Flash point:** NA

**Auto ignition temperature:** NA

**Flammable limits:** NA

Under high heat, may give off ammonia fumes. All fire extinguishing agents acceptable. In event of fire, wear self-contained breathing apparatus. Use water spray to keep containers cool.

### **Precautions / Procedures**

Minimize contact of liquid with eye, skin, and clothing. Avoid using containers, pipes, and fittings made of brass, zinc, copper and aluminum.

## **Environmental / Hazardous Ingredients**

### **Degradability / Aquatic Toxicity**

Solution is a fertilizer. May cause eutrophication in waterways. Proper use and disposal should not cause a significant environmental impact.

**EPA hazardous substance:** No

**Reportable quantity:** None

### **Waste Disposal Methods**

Disposal subject to Federal, State, and Local regulations. Users of this product should review their operations in terms of applicable Federal, State, and Local laws and regulations, then consult with the appropriate regulatory agencies before discharging or disposing of waste material.

### **D.O.T. Classification**

Not regulated

### **MSDS**

Mixed grade fertilizer

This product is a non-pressure, non-hazardous, non-flammable, non-regulated, safe-handling solution.

## **Regulatory Information**

**TSCA:** The components of these products are listed in the TSCA inventory.

**SARA:** These products contain the following compounds subject to reporting under Section 313 of SARA III and 40 CFR 372.

Ammonia: CAS No. 7664-41-7. Percent by weight in these products are <9.89%.

Nitrate compounds: CAS No. is not applicable to the class of nitrate compounds. Percent by weight in these products are <35.87%.

Ammonium Sulfate solution: CAS No. 7783-20-2. Percent by weight in these products are <1.0%.

**State of California, Proposition 65:** No components of these products are listed under State of California Proposition 65 to cause cancer and birth defects or other reproductive harm.

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