



Material Safety Data Sheet

MacroGro™ 2109RM

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 2109RM

Derived from: Aqueous solution of ammonium nitrate, urea, & ammonium polyphosphate

Chemical Formula: NH_4NO_3 , $\text{CH}_4\text{N}_2\text{O}$, $\text{NH}_4(\text{PO}_4)_n$
CAS Number: 6484-52-2

Physical Properties

Product	<u>2109RM</u>
pH (typical)	6.5-7.2
Specific Gravity (@ 60°F)	1.27
Density (lb/gal)	10.6

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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