

MATERIAL SAFETY DATA SHEET

SR-4 14-9-15

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Issue Date: 05/09

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

SR-4 14-9-15

Common Name: Controlled release fertilizer.

Chemical Description: Fertilizer granule coated with polymer resin.

TSCA/CAS No.: This product is a mixture – there is no specific CAS number.

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Ammonium Nitrate	6484-52-2	Proprietary	None	*N.P.
Ammonium Phosphate	7722-76-1	Proprietary	None	N.P.
Sulfur	7704-34-9	Proprietary	None	N.P.
Potassium Sulfate	7778-80-5	Proprietary	None	N.P.
Magnesium Sulfate	7487-88-9	Proprietary	None	N.P.
Copper Sulfate	7758-98-7	Proprietary	1 mg (Cu)/m ³	10
Copper Oxide	1317—38-0	Proprietary	1 mg/m ³	N.P.
Iron Sulfate	7782-63-0	Proprietary	1 mg (Fe)/m ³	1,000
Ferrous Oxide	1309-37-1	Proprietary	10 mg (Fe)/m ³	N.P.
Manganese Sulfate	7785-87-7	Proprietary	5 mg (Mn)/m ³	N.P.
Zinc Sulfate	7733-02-0	Proprietary	None	1,000

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Mixed light/dark tan granules. May be harmful if swallowed. Avoid eye and skin contact. Avoid extreme heat. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 1 FLAMMABILITY: 0 ENVIRONMENT: 0
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

SECTION 4.	FIRST AID (Continued)
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Ingestion: Call a physician or Poison Control Center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. Not expected to be an inhalation hazard. If breathing becomes difficult, call a physician.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	Decomposes on heating.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	Decomposes on heating to emit toxic oxides of nitrogen, phosphorous, carbon, potassium, and sulfur as well as ammonia. High airborne dust concentrations have the potential for explosion.
Extinguishing Media:	Foam, dry chemical or carbon dioxide, water.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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Containment: Prevent product spillage from entering drinking water supplies or streams.

Clean Up: Sweep up and package for disposal.

Evacuation: Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage: Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9.	PHYSICAL AND CHEMICAL DATA
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Appearance:	Mixed light/dark tan granules.
Odor:	None.
pH:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density (Air = 1):	Not applicable.
Boiling Point:	Decomposes on heating.
Freezing Point:	Not available.
Water Solubility:	80-85%
Specific Gravity:	1.1
Evaporation Rate:	Not applicable.
Viscosity:	Not applicable.
% Volatile:	Not applicable.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10.	STABILITY AND REACTIVITY
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Stability:	Stable.
Conditions To Avoid:	Extreme heat and contact with strong alkalis, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium.
Incompatibility:	Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, sodium nitrite and many chlorine compounds (including household bleach and other cleaning products).
Hazardous Decomposition Products:	Oxides of nitrogen, phosphorous, carbon, potassium, magnesium, and sulfur, as well as ammonia.
Hazardous Polymerization:	Will not occur.

SECTION 11.	POTENTIAL HEALTH EFFECTS
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Acute Effects:

Eyes:	Mild irritant. May cause redness and/or burning.
Skin:	Mild irritant, especially from prolonged exposure may occur.
Ingestion:	May cause nausea, vomiting, possible excitement and convulsions.
Inhalation:	May irritate nose, throat and lungs.
<u>Subchronic Effects:</u>	Not known.
Chronic Effects:	Not known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.
Toxicity to Fish and Invertebrates: Not known.
Toxicity to Plants: Not known.
Toxicity in Birds: Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.
Other Shipping Description: Fertilizing Compounds (Manufactured), Dry.
NMFC Item 68140 Sub 4, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: Copper sulfate, ferrous sulfate and zinc sulfate are listed as priority pollutants under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: None.

Proposition 65: None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.