

RSA MicroTech, LLC

Material Safety Data Sheet

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300

Section 1 – Chemical Product and Company Identification

Product Name: **Ruffin Redy Special Crop Mix**

Common Name: Liquid Fertilizer Micronutrient Compound

Chemical Description: Liquid Fertilizer Micronutrient Compound

Manufacturer's Name:
RSA MicroTech, LLC
PO Box 39
Marysville, WA 98270
Date Prepared:

Emergency Telephone Number:
CHEMTREC 1-800-424-9300
Telephone Number for Information:
1-360-653-0274
Revision Date: 11-25-03

Section 2 – Composition Information on Ingredients

Derived from: Citric Acid, EDTA, , Copper Sulfate,,Zinc Chloride, Manganese Sulfate Water.

Ingredient	%	TLV or PEL
Sulfur (S)	2.00	N/A
Copper (Cu) as metal	1.00	N/A
Manganese (Mn)''''''''	3.00	N/A
Zinc (Zn)as metal	5.00	N/A
Citric Acid	10.00-15.00	N/A
EDTA	1.00-5.00	N/A
Water	69.00-75.00	N/A

NFPA HAZARD RATING:

0	Least		
1	Slight	2	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe		

Section 3 – Hazards Identification

Emergency Overview: Product may cause oxygen deficiency in enclosed space; follow all OSHA regulations pertaining to enclosed space entry. See health effects below.

CAUTION: Keep out of reach of children.

Route(s) of Entry: Eyes, Inhalation, Skin and Ingestion

Health Hazards (*Acute and Chronic*):

Inhalation: Inhalation of mist may produce severe irritation of the respiratory tract.

Eyes: Severe irritation of eyes.

Skin: Contact may cause irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.

Ingestion: Hazardous if swallowed.

Carcinogenicity NTP: Not Listed IARC: Not Listed OSHA: Not Listed

Medical Conditions Generally Aggravated by Exposure:

Preexisting respiratory conditions may be aggravated by exposure to mists.

Section 4 – First Aid Measures

Inhalation: Remove person to fresh air and support breathing as needed. Seek medical attention if irritation persists, especially to the respiratory tract.

Ingestion: Seek medical attention or call a poison control center immediately.

Eyes: Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation, or burning persists.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated, or has burning sensation.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 – Fire and Explosion Hazard Data

Flash Point: Non-combustible	Flammable Limits: Non-combustible	LEL: Not Established	UEL: Not Established
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Extinguishing Media: Materials suitable to surrounding fire.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components.
Hazardous Combustion Products: Metal oxides and other toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat. Contain run off by diking to prevent contamination to water supplies.

Section 6 – Accidental Release Measures

Small Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills when handling should be cleaned up immediately to prevent spreading.
Large Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mist.
Containment: Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contained spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up waste and place in a container for disposal.

Section 7 – Precautions for Safe Handling and Use

Precautions to Be taken in Handling and Storing: Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing keep containers closed when not in use. Do not store in aluminum or metal vessels.
Other Precautions: Consult local, State and Federal regulations pertaining to storage and disposal.

Section 8 – Control Measures / Personal Protection

Respiratory Protection (*Specify Type*): Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator.

Ventilation: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemically protective gloves
Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.
Other Protective Clothing or Equipment: Wear chemically protective boots, aprons and gauntlets to prevent prolonged or repeated skin contact.
Work / Hygienic Practices: Never eat, drink or smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.

Section 9 – Physical / Chemical Characteristics

Physical State:	Liquid	Specific Gravity (H₂O=1)	1.32 (11.00 lbs gal.)
Vapor Pressure (mm Hg.)	N/A	Freezing Point	32F
Vapor Density (AIR=1)	N/A	Boiling Point	212F
Solubility in Water:	100%	pH	1.00-2.00

Appearance and Odor Clear dark. blue liquid, no noticeable odor.

Section 10 – Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Strong bases and oxidizers.

Conditions to avoid: Avoid excessive heat.

Hazardous Decomposition Products: Metal oxides and other toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

Hazardous Polymerization: Cannot occur.

Section 11 – Toxicological Information

Eye Effects: Severe irritation

Chronic Effects: No unusual chronic effects

Skin Effects: May cause irritation, or burning.

Carcinogenicity: Not listed as carcinogenic

Acute Inhalation Effects: Not Determined

Mutagenicity: Not listed as mutagenic

Acute Oral Effects: Not Determined

Teratogenicity: Unknown

Section 12 – Ecological Information

Soil Absorption / Mobility: Mobile in soil profile

Section 13 – Disposal Considerations

Disposal: Dispose of in an approved landfill or apply at recommended label rates.

Disposal Regulatory Requirement: Follow applicable Federal, State and local regulations.

Section 14 – Transport Information

Not D.O.T. Regulated

Section 15 – Regulatory Information

SARA TITLE II HAZARD CATEGORY:	Immediate: Yes	Delayed: No
Sudden Release of Pressure: No	Fire: No	Reactive: No

CERCLA: .Not Listed

SARA, TITLE III, SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community-Right-To-Know Act of 1986 (40CFR 372): Copper Compounds 10, Zinc Compounds 21.00, Manganese Compounds 16 percentages by weight.

PROPOSITION 65: WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

Section 16 – Other

Disclaimer: All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of this product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained therein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.