

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: **RSA RUFFIN TUFF COPPER**

Common Name: Granular Fertilizer Blend

Chemical Description: Granular Fertilizer Blend

Manufacturer's Name:
RSA MicroTech, LLC
PO Box 64589
St Paul, MN 55164-0589

Emergency Telephone Number:
CHEMTREC 1-800-424-9300

Date Prepared: 10-13-03

Revision Date: 06-14-06

Section 2 – Composition Information on Ingredients

Derived from: Lignosulfonate CAS 8062-15-5, Copper Sulfate CAS 7758-98-7, Proprietary Ingredients.

| Ingredient | % | TLV or PEL |
|-------------------------|-------------|------------|
| Sulfur (S) Combined | 6.00 | N/A |
| Copper (Cu) | 5.00 | N/A |
| Proprietary Ingredients | 30.00-80.00 | N/A |
| | | |

NFPA HAZARD RATING:

| | | | |
|---|----------|---|--------------|
| 0 | Least | | |
| 1 | Slight | 1 | 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 dust may cause irritation of the upper respiratory tract.

Eyes: 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: Harmful if swallowed.

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

Medical Conditions Generally Aggravated by Exposure:

None known. Preexisting respiratory conditions may be aggravated by exposure to dusts.

Section 4 – First Aid Measures

Inhalation: Remove person to fresh air and support breathing as needed. Seek medical attention if irritation persists.

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 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.

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 |
|--|---|--------------------------------|--------------------------------|

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: Oxides of sulfur, 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: None Known

Section 6 – Accidental Release Measures

Small Spills: Clean up personnel should protect against dust inhalation and skin contact. Avoid generating dust. Spills when handling should be cleaned up immediately to prevent spreading.

Large Spills: Clean up personnel should protect against dust inhalation and skin contact. Avoid generating dust.

Containment: Do not release into sewers or waterways. Cover with Plastic if raining. 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. Keep containers closed when not in use.

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 chemical protective gloves

Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.

Other Protective Clothing or Equipment: Wear chemical 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: | Granular | Specific Gravity (water=1) | 52 lbs cubic Ft. |
|------------------------|----------|-----------------------------------|------------------|

| | | | |
|--------------------------------|-----|-----------------------|-----|
| Vapor Pressure (mm Hg.) | N/A | Freezing Point | N/A |
|--------------------------------|-----|-----------------------|-----|

| | | | |
|------------------------------|-----|----------------------|-----|
| Vapor Density (AIR=1) | N/A | Boiling Point | N/A |
|------------------------------|-----|----------------------|-----|

| | | | |
|------------------------------------|------|-----------|-----|
| Solubility in Water: Copper | 100% | pH | N/A |
|------------------------------------|------|-----------|-----|

Appearance and Odor: Light to dark brown granular with no noticeable odor.

Section 10 – Reactivity Data

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

Chemical Incompatibilities: Strong Acids and Bases

Conditions to avoid: Avoid excessive heat or damp areas.

Hazardous Decomposition Products: Oxides of sulfur and other toxic fumes may form in a fire situation.

Hazardous Polymerization: Cannot occur.

Section 11 – Toxicological Information

Eye Effects: Irritation

Chronic Effects: No unusual chronic effects

Skin Effects: May cause irritation

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 regulated by DOT.

Section 15 – Regulatory Information

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

CERCLA: RQ Cupric Sulfate 10 pounds, triggered by 200 pounds of product.

SARA, TITLE III, SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Community Right-To-Know Act of 1986 (40CFR372); Copper Compounds 20.00 percentage 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.