

# 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 Zinc 15% EDTA**

Common Name: Zinc EDTA, Sodium Salt

CAS No: 14025-21-9

Manufactured For:

**RSA MicroTech, LLC**

PO Box 39

Marysville, WA 98270

Date Prepared: 02/07/03

Emergency Telephone Number:

**CHEMTREC 1-800-424-9300**

Telephone Number for Information:

1-800-426-5969

Revision Date: NEW

### Section 2 – Composition Information on Ingredients:

Derived from: Manganese EDTA, Sodium Salt

| INGREDIENTS  | %    | TLV or PEL |
|--------------|------|------------|
| Nitrogen (N) | 6.0  | N/A        |
| Zinc (Zn)    | 15.0 | 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 spaces; follow all OSHA regulations pertaining to enclosed space entry. Store away from wood, paper, fuels, etc. 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 may cause irritation of the respiratory irritation.

**Eyes:** Contact with eyes may cause irritation and/or redness.

**Skin:** Contact with skin may cause irritation.

**Ingestion:** Harmful if swallowed.

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

**Medical Conditions Generally Aggravated by Exposure:**

No information found.

### Section 4 – First Aid Measures

**Inhalation:** Remove person to fresh air.

**Ingestion:** Seek medical attention. Never give anything by mouth to an unconscious person.

**Eyes:** Immediately flush with clean water for at least 20 minutes. Lift eyelids to facilitate irrigation. Seek medical attention.

**Skin:** Remove contaminated clothing and shoes. Wash before re-using. Wash affected area with soap and water.

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

## Section 5 – Fire and Explosion Hazard Data

|                                       |   |                                |                                |
|---------------------------------------|---|--------------------------------|--------------------------------|
| <b>Flash Point:</b><br>Not Determined | <b>Flammable Limits:</b><br>Not Determined. | <b>LEL:</b> Not<br>Established | <b>UEL:</b> Not<br>Established |
|---------------------------------------|---|--------------------------------|--------------------------------|

### **Extinguishing Media:**

**Small Fires:** Use water spray or fog. Product may smolder if ignited.

**Special Fire Fighting Procedures:** Do not release runoff from fire control methods to sewers or waterways.

**Hazardous Combustion Products:** Oxides of carbon and nitrogen. Heavy metal fumes.

**Unusual Fire and Explosion Hazards:** Dust is sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

## Section 6 – Accidental Release Measures

**Small Spills:** Clean up personnel should protect against dust inhalation and skin contact. Avoid generating dust. Keep combustibles away from spilled material. Do not get water inside containers.

**Containment:** Do not release into sewers or waterways. If spilled material is exposed to rain or wind, cover with plastic to prevent run-off until cleanup is possible.

## Section 7 – Precautions for Safe Handling and Use

**Precautions to Be taken in Handling and Storing:** Store in a cool, dry place, away from sources of high heat. Protect bags or other containers from damage. Keep bags or other 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/HIOSH-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:** Impervious gloves are recommended.

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**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

|                                |                                     |  |     |
|--------------------------------|-------------------------------------|--|-----|
| <b>Physical State:</b>         | Granule<br>Powders                  | <b>Specific Gravity (H<sub>2</sub>O=1)</b> | N/A |
| <b>Vapor Pressure (mm Hg.)</b> | N/A                                 | <b>Freezing Point</b>                      | N/A |
| <b>Vapor Density (AIR=1)</b>   | N/A                                 | <b>Boiling Point</b>                       | N/A |
| <b>Solubility in Water:</b>    | Appreciable                         |  |     |
| <b>Appearance and Odor:</b>    | granules with fertilizer-like odor. |  |     |

## Section 10 – Reactivity Data

**Stability:** Product stable under normal conditions of use and storage.

**Chemical Incompatibilities:** Strong oxidants and alkalines.

**Conditions to avoid:** Wet/Humid conditions and incompatibilities.

**Hazardous Decomposition Products:** Oxides of nitrogen and other toxic fumes chemicals may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

**Hazardous Polymerization:** Will not occur.

## Section 11 – Toxicological Information

**Chronic Effects:** Under some circumstances, methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite. Nausea, vomiting, dizziness, rapid heartbeat, irregular breathing, convulsions, coma and death can occur should this conversion take place. Chronic exposure to nitrites may cause anemia and adverse effects to kidneys.

**Eye Effects:** Irritation

**Skin Effects:** Irritation

**Acute Inhalation Effects:** Not Determined

**Acute Oral Effects:** Not Determined

**Carcinogenicity:** Not listed as carcinogenic

**Mutagenicity:** Not listed as mutagenic

**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

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

**CERCLA:** Not Listed.

**SARA, TITLE III, SECTION 313:** None Listed.

**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.