

# 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: PLATINIUM MANGANESE EDTA 13%**

Common Name: Powdered Fertilizer Micronutrient Compound

Manufacturer's Name:  
**RSA MicroTech, LLC**  
PO Box 39  
Marysville, WA 98270  
Date Prepared: 03-05-04

Emergency Telephone Number:  
**CHEMTREC 1-800-424-9300**  
International Telephone Number:  
703-527-3887  
Revision Date: 10-12-05

### **Section 2 – Composition Information on Ingredients**

Derived from: Mn EDTA CAS# 15375-84-5

<b>Ingredient</b>	<b>%</b>	<b>TLV or PEL</b>
Nitrogen (N)	7.0	N/A
Manganese (Mn)	13.0	N/A

### **NFPA HAZARD RATING:**

0	Least		
1	Slight	<b>1</b>	Health
2	Moderate	<b>0</b>	Flammability
3	High	<b>0</b>	Instability
4	Severe		

### **Section 3 – Hazards Identification**

**Emergency Overview:** 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 dust.

### **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**

<b>Flash Point:</b> Non-combustible	<b>Flammable Limits:</b> Non-combustible	<b>LEL:</b> Not Established	<b>UEL:</b> 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:** Toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

**Unusual Fire and Explosion Hazards:** Contain run off by diking to prevent contamination to water supplies.

### **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 mist inhalation and skin contact. Avoid generating dust.

**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 sources of heat and sunlight. Immediately clean up spills that occur during handling or storage. Store in PVC, PE, or stainless steel and avoid contact with aluminum, copper, copper alloys and nickel

**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**

<b>Appearance and Odor</b>	Off white. No odor		
<b>Physical State:</b>	Micro granular	<b>Bulk Density</b>	0.6 g/ml
<b>Solubility in Water:</b>	50 gms/100 ml	<b>pH(1 % Solution):</b>	6.5

### **Section 10 – Reactivity Data**

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

**Chemical Incompatibilities:** Strong oxidizers

**Conditions to avoid:** Avoid excessive heat, high humidity

**Hazardous Decomposition Products:** Toxic gases may be formed in a fire situation, carbon monoxide, carbon dioxide, nitrogen oxides and water vapor.

**Hazardous Polymerization:** Cannot occur.

### **Section 11 – Toxicological Information**

**Eye Effects:** Irritation

**Chronic Effects:** LD<sub>50</sub> (oral) in rats 2000 mg/kg

**Skin Effects:** May cause irritation

**Carcinogenicity:** Not listed as carcinogenic

**Mutagenicity:** Not listed as mutagenic

### **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 the US DOT for highway

### **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:** None listed

**SARA, TITLE III, SECTION 313:** NA

### **Section 16 – Other**

Prepared by: Mike Barry

Reviewed by: Dennis Belau

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