

# 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 Sodium Molybdate Dihydrate**

Common Name: Sodium Molybdate

Distributed By:  
**RSA MicroTech, LLC**  
PO Box 64589  
St Paul, MN 55164-0589  
Revision Date: 01-22-06

Emergency Telephone Number:  
**CHEMTREC 1-800-424-9300**  
Telephone Number for Information:  
1-360-653-0274  
Replaces: 03-02-04

### Section 2 – Composition Information on Ingredients

Derived from: Sodium Molybdate cas # 7439-98-7

| Ingredient      | %    | TLV or PEL              |
|-----------------|------|-------------------------|
| Molybdenum (Mo) | 39.5 | 5 mg/m <sup>3</sup> TLV |

### NFPA HAZARD RATING:

|   |          |   |              |
|---|----------|---|--------------|
| 0 | Least    |   |              |
| 1 | Slight   | 1 | Health       |
| 2 | Moderate | 0 | Flammability |
| 3 | High     | 0 | 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 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**

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

**Extinguishing Media:** Materials suitable to surrounding fire or dust environment.

**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:** At fire temperatures Sodium Molybdate emits toxic fumes of Sodium Oxide.

**Unusual Fire and Explosion Hazards:** At fire temperatures Sodium Molybdate emits toxic fumes of Sodium Oxide.

## **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. Avoid contact with strong oxidizers.

**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 or dust mask.

**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:** powder                      **Specific Gravity (water=1)**      2.56

**Solubility in Water:** 100% at 60 degrees C.

**Appearance and Odor:** Odorless white opaque powder.

### **Section 10 – Reactivity Data**

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

**Chemical Incompatibilities:** Strong oxidizers, excessive heat, or open flame.

**Conditions to avoid:** Avoid excessive heat or damp areas.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of toxic Sodium Oxides.

**Hazardous Polymerization:** Cannot occur.

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

**Eye Effects:** Irritation

**Skin Effects:** May cause irritation

**Acute Oral Effects:** LD<sub>50</sub> 520 mg/kg (IPR RAT)

**Chronic Effects:** No unusual chronic effects

**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 US DOT by highway transportation.

### **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:** None listed.

### **Section 16 – Other**

Prepared by: Mike Barry

Reviewed by: Dennis Belau

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