

# MATERIAL SAFETY DATA SHEET

MONTEREY HI-LO GRANULAR ZINC SULFATE 35.5% Page 1 of 4

Issue Date: 01/06

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Chemical Product

MONTEREY HI-LO GRANULAR ZINC SULFATE 35.5%

Chemical Description: Zinc Sulfate Monohydrate

TSCA/CAS No.: 7446-19-7

### Manufactured For

Monterey AgResources

P. O. Box 35000

Fresno, CA 93745-5000

### Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

## SECTION 2. HAZARDOUS INGREDIENTS

| CHEMICAL     | CAS NO.   | %   | TLV OR PEL | RQ (lbs) |
|--------------|-----------|-----|------------|----------|
| Zinc Sulfate | 7446-19-7 | 99% | *N.A.      | 1,000    |

\* N.A. - Not Available.

## SECTION 3. EMERGENCY/HAZARDS OVERVIEW

White granules. May cause eye and skin irritation. Not a fire hazard. D.O.T. regulated in containers > 1000 lbs.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

## SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. Call a physician if eye irritation persists.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

Ingestion: Induce vomiting if conscious. Call a physician or Poison Control Center immediately.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

**SECTION 5. FIRE AND EXPLOSION HAZARDS**

|   |  |
|---|--|
| Flash Point:  | Not applicable.  |
| Test Method:  | Not pertinent.   |
| LEL Flammable Limits:                                     | Not pertinent.   |
| UEL Flammable Limits:                                     | Not pertinent.   |
| Autoignition Temperature:                                 | Not pertinent.   |
| Flammability Classification:                              | Nonflammable.  |
| Known Hazardous Products of Combustion:                   | None.  |
| Properties that Initiate/Contribute to Intensity of Fire: | None.  |
| Potential For Dust Explosion:                             | None.  |
| Reactions that Release Flammable Gases or Vapors:         | Not known.   |
| Potential For Release of Flammable Vapors:                | None.  |
| Unusual Fire & Explosion Hazards:                         | May release toxic oxides of zinc and sulfur.   |
| Extinguishing Media:                                      | Dry chemical, CO <sub>2</sub> , or foam. Water may be ineffective, but water spray or fog may be used as a cooling agent.  |
| Special Firefighting Procedures:                          | Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff. |

**SECTION 6. SPILLS AND LEAKS**

|              |  |
|--------------|--|
| Containment: | Prevent product spillage from entering drinking water supplies or streams. |
| Clean Up:    | Sweep up and use according to labeling or package for disposal.            |
| Evacuation:  | Not necessary.   |

**SECTION 7. STORAGE AND HANDLING**

|                          |   |
|--------------------------|---|
| Storage:                 | Store in a cool, dry place away from children and other food and feed products. Do not contaminate other stored products or the storage area by handling or storage of this product.  |
| Transfer Equipment:      | Transfer solutions of product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.  |
| Work/Hygienic Practices: | Keep out of reach of children. Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. |

**SECTION 8. PERSONAL PROTECTIVE EQUIPMENT**

|              |  |
|--------------|--|
| Eyes:        | Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.        |
| Skin:        | Impervious gloves and clothes.   |
| Respiratory: | Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710). |
| Ventilation: | Recommended but no TLV established.  |

**SECTION 9. PHYSICAL AND CHEMICAL DATA**

|                                      |                 |
|--------------------------------------|-----------------|
| Appearance:                          | White granules. |
| Odor:                                | None.           |
| pH:                                  | Not available.  |
| Vapor Pressure:                      | Not available.  |
| Vapor Density (Air=1):               | Not available.  |
| Boiling Point:                       | Not available.  |
| Freezing Point:                      | Not available.  |
| Water Solubility:                    | 30% at 70°F.    |
| Specific Gravity:                    | Not available.  |
| Evaporation Rate:                    | Not available.  |
| Viscosity:                           | Not available.  |
| % Volatile:                          | Not available.  |
| Octanol/Water Partition Coefficient: | Not available.  |
| Saturated Vapor Concentration:       | Not available.  |

**SECTION 10. STABILITY AND REACTIVITY**

|                                   |  |
|-----------------------------------|--|
| Stability:                        | Stable.  |
| Conditions To Avoid:              | May burn but does not ignite readily. Avoid contact with strong oxidizers and/or excessive heat. |
| Incompatibility:                  | Oxidizers.   |
| Hazardous Decomposition Products: | May release toxic and hazardous oxides of zinc and sulfur in a fire.                             |
| Hazardous Polymerization:         | Will not occur.  |

**SECTION 11. POTENTIAL HEALTH EFFECTS**

|                            |   |
|----------------------------|---|
| <u>Acute Effects:</u>      |   |
| Eyes:                      | Mild irritant. May cause redness.                                     |
| Skin:                      | Mild irritant, especially from prolonged exposure. May cause redness. |
| Ingestion:                 | May cause stomach cramps and/or nausea.                               |
| Inhalation:                | None expected but may cause irritation to upper respiratory tract.    |
| <u>Subchronic Effects:</u> | None known.   |
| <u>Chronic Effects:</u>    | None known.   |

**SECTION 12. ECOLOGICAL INFORMATION**

|                                     |            |
|-------------------------------------|------------|
| Algal/Lemna Growth Inhibition:      | Not known. |
| Toxicity to Fish and Invertebrates: | Not known. |
| Toxicity to Plants:                 | Not known. |
| Toxicity in Birds:                  | Not known. |

