

MATERIAL SAFETY DATA SHEET

Prince Minerals, Inc. 14 E 44th St., 5th Floor New York, NY 10017 CONTACT NUMBERS: Prince Environmental, Health & Safety: (646) 747-4175 CHEMTREC (24-hrs): (800) 424-9300

Section I: Product Information Identity: BLENDED GRANUSOL Synonyms/ Trade Names: GRANUSOL, SOUTHEAST MIX, NURSERY MIX Revision Date: 08/2006

Section II: Hazardous Ingredients

| Chemical Name: | CAS # | OSHA PEL | ACGIH TLV | Percent |
|----------------------------------|------------|------------------------------|--------------------|---------|
| Iron Oxide | 8047-67-4 | N/A | N/A | 18.8 |
| Manganese Compounds as Mn | 7439-96-5 | N/A | N/A | 7.8 |
| Zinc Compounds as Zn | 7440-66-6 | N/A | N/A | 6.75 |
| Cupric Oxide (Cu ₂ O) | 1317-39-1 | 1 | 1 | 3.2 |
| Boron Oxide as Boron | 1303-86-2 | N/A | 10 T, 5R | 3.1 |
| Molybdenum Soluble Comp'ds | 7631-95-0 | | | 0.07 |
| Quartz (SiO ₂) | 14808-60-7 | 10/(% SiO ₂ +2)R | 0.05 | 0-1 |
| | | 30//(% SiO ₂ +2)T | | |
| CaO | 1305-78-8 | 5 mg/m^3 | 2 mg/m^3 | 5-30 |

Section III: Physical/Chemical Characteristics

| Bulk density: | 98 lbs/ft ³ | Freeze Point: | Solid at STP | % volatile by vol: | 0% H ₂ O |
|---------------------------------|------------------------|-----------------------|--------------|--------------------|---------------------|
| Water solubility: | Slight | Melting Point: | >3002 °F | Vapor Density: | N/A |
| pH: (10% aqueous slurry) | N/A | Boiling Point: | N/A | Vapor Pressure: | N/A |

Appearance and Odor: Available as dry, black, free-flowing granules less than 1/4 inch in size. Odorless.

| Section IV: Fire and Explosion Hazard Data | |
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| Emergency Overview: | Not a fire or spill hazard. Low toxicity; dry dust is a nuisance particulate. Generally, health effects are provided for exposure to dust that may be generated during product transfer and handling. |
| Flammable Properties: | Material will not burn. No unusual fire or explosion hazards. |
| Extinguishing Media: | Use extinguishing media appropriate to combustibles in the surrounding area. |
| Protection for Firefighters: | Wet material should be kept out of eyes and off skin. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Material does not give off toxic fumes in a fire unless molten. |

| Section V: Reactivity Data | |
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| Stability: | Stable under normal conditions of storage. |
| Conditions to Avoid: | None under normal conditions. |
| Incompatibility (materials to avoid): | Components in the product can react violently when mixed with hydrogen peroxide, ethylene oxide, and nitric acid. Violent reaction occurs when heated with powdered aluminum; calcium disilicide; magnesium; metal acetylides. Mixtures with aluminum and sulfur react violently if heated. Ignites on contact with hydrogen trisulfide. |
| Hazardous Decomposition or Byproducts: | None under normal conditions. |
| Hazardous Polymerization: | Will not occur. |

Section VI: Health Hazard Data

| Routes of Exposure: | EYE CONTACT: Particulate may cause slight to moderate irritation. Abrasive action of dust | | |
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| | particulate can damage eye. | | |
| | SKIN CONTACT: Prolonged or repeated contact may cause slight to moderate irritation. | | |
| | INHALATION: Overexposure by inhalation of airborne particulate, dust, or fumes is irritating to the | | |
| | nose, throat, and respiratory tract. Inhalation of excessive levels of dust or fumes may be harmful. | | |
| | INGESTION: Small amounts (< tablespoonful) swallowed during normal handling operations are n | | |
| | likely to cause injury, however, swallowing larger amounts may cause injury. If ingested in sufficient | | |
| | quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, | | |
| Acute and Chronic effects of Exposure: | abdominal pain, and diarrhea. | | |
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| Signs and Symptoms of Exposure: | (Dust) tearing of eyes, burning sensation in the throat, cough, chest discomfort. | | |
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| Aggravation of Pre-existing Conditions: | The excessive inhalation of mineral dust may aggravate pre-existing chronic lung conditions such as, | | |
| | but not limited to, bronchitis, emphysema, and asthma. | | |
| Emergency and First Aid Procedures: | EYE CONTACT: Flush eyes immediately with water for at least 15 minutes. Seek medical attention | | |
| Emergency and First And Frocedures. | if irritation persists. | | |
| | SKIN CONTACT: Immediately wash affected area with mild soap and water to remove any dust | | |
| | adhering to the skin. Seek medical attention if irritation develops or persists. | | |
| | INHALATION: If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical | | |
| | attention if cough or other symptoms develop. If not breathing, give artificial respiration or give | | |
| | oxygen by trained personnel, and get medical attention. | | |
| | IF INGESTED: If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or | | |
| | milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to | | |
| | qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical | | |
| | attention. | | |
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Section VII: Precautions for Safe Handling and Use **STEPS TO BE TAKEN IN CASE** CONTAINMENT: Product is dry solid (granular or powder) and not readily soluble in water. However, prevent spilled product from entering streams, water bodies, and wastewater systems. MATERIAL IS RELEASED OR SPILLED: CLEANUP: Vacuum or sweep up dry material and place in a container for reuse. Avoid creating excessive airborne dust. Cleanup personnel need to wear approved respiratory protection (air-purifying or air-supply), gloves, long-sleeved clothing and goggles to prevent irritation from contact and inhalation. EVACUTATION: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. POTENTIAL ENVIRONMENTAL EFFECTS: Prevent spilled product from entering streams, water bodies, and wastewater systems. This material is used as an agricultural product. **COLLECTION:** If possible, collect and reuse spilled product. Waste Disposal Method: DISPOSAL METHOD: Follow all applicable Federal, State, and local laws, rules, and regulations regarding the proper disposal of this material. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with skin and eyes. Handling and Storing Precautions: Store in a cool, dry area. Keep container closed when not in use. Segregate from products with which it can react including: hydrogen peroxide, calcium hypochlorite, and fluorine gas. **Section VIII: Control Measures** If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne **Engineering Controls:** contaminants below the exposure limits listed in Section 2. **Eve Protection:** Corrosive to eyes. Wear protective safety goggles when dust generation is likely. **Skin Protection:** Wear clothing sufficient to cover the skin, safety shoes, and leather gloves for hand protection against drv material. Use NIOSH/MSHA approved respiratory protection (air purifying or air supplying) when **Respiratory Protection:** concentrations are above exposure limit value. A respiratory protection program that meets OSHA 29 CFR part 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

Work and Hygienic Practices:

nic Practices: Wash thoroughly after using product. Wash contaminated clothing. Wash hands before eating or drinking.

SARA Title III Section 313 Supplier Notification This product contains chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.45: Is as Mn CAS#: 7439-96-5 % by Weight 78

| Component: Manganese Compounds as Mn | CAS #: 7439-96-5 | % by Weight: 7.8 |
|--------------------------------------|-------------------------|------------------|
| Zinc Compounds as Zn | 7440-66-6 | 6.75 |