

# MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact  
ChemTel, Inc. North American 1-800-255-3924 or worldwide  
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.  
230 FM 87  
Bonham, Texas 75418

## Hi-Yield® Soil Sulfur

Effective Date: May 24, 2012

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Hi-Yield® Soil Sulfur

#### COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.  
230 FM 87  
Bonham, TX. 75418

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CAS NO.	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Sulfur (nuisance dust)	7704-34-9	Proprietary	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American conference of Governmental Industrial Hygienists.

### 3. PHYSICAL DATA:

**Boiling Point:** 444.6°C  
**Specific Gravity:** 2.07  
**Vapor Pressure:** Not Established  
**Percent Volatile by Volume:** Not Established  
**Vapor Density:** Not Established  
**Evaporation Rate:** Not Established  
**Solubility in Water:** Insoluble  
**Reactivity in Water:** Does Not Apply  
**Appearance and Odor:** Solid

### 4. FIRE AND EXPLOSION DATA:

**Flash Point:** 207°C  
**Flammable Limits:** Lower: 35 g/m<sup>3</sup> Upper: 1400 g/m<sup>3</sup>  
**Extinguishing Media:** Carbon dioxide, foam or water  
**Auto Ignition Temperature:** 232°C

**Unusual Fire and Explosion Hazards:** See Section 6 for decomposition products.

**Special Fire Fighting Procedures:** Cool fire exposed containers with water. Fight fire from a maximum distance. Dike fire control water for later disposal. Use a self contained breathing apparatus.

### 5. HEALTH INFORMATION:

**Primary Routes of Exposure and Target Organs:** Skin and eye contact, inhalation, ingestion.

#### Signs and Symptoms of Exposure:

- Acute Overexposure:** Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract; nausea, vomiting, cramps, and diarrhea. Eye and skin contact may result in local irritation and burns. Acidic substances may cause burns with discoloration and corrosion of the mucous membranes of the mouth, throat, and esophagus, with symptoms of thirst, epigastric pain, nausea, vomiting, and diarrhea. Inhalation of high concentrations may result in upper respiratory tract irritation, and may increase risk of asthmatic attacks.
- Chronic Overexposure:** Repeated or prolonged eye contact may cause conjunctivitis. Repeated or prolonged inhalation may cause erosion of the teeth, inflammatory and ulcerative changes in the mouth, and possible jaw necrosis. Repeated skin contact may result in dermatitis.

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**Medical Conditions Generally Aggravated by Exposure:** Disorders of respiratory system, asthma, dermatitis, or other skin disorders.

**Chemical/Component Listed as a Carcinogen or Potential Carcinogen:** None.

NTP: No      IARC: No      OSHA: No

**Other Exposure Limits:** TLV (nuisance dust) = 10mg/m<sup>3</sup>      PEL(nuisance dust) = 15mg/m<sup>3</sup>

### Emergency and First Aid Procedures:

**Ingestion:** Do not induce vomiting. Dilute acid immediately by drinking large quantities of water or milk. If vomiting persists, administer fluids repeatedly. Never give anything by mouth to an unconscious person. Call a physician.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface of the eye and lids with plenty of water. Obtain medical attention if irritation persists. Oils and ointments should not be used unless directed by a physician.

**Skin Contact:** Immediately wash skin with soap and water.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## 6. REACTIVITY DATA:

**Stability:** Stable

**Conditions to Avoid:** Decomposes upon heating; Avoid heating or direct exposure to sunlight.

**Incompatibility:** Strong oxidizers, alkalis, organic agents, and other agents, do not mix with other compounds

**Hazardous Decomposition Products:** Ammonia, phosphorus oxides, cyanuric acid, cyanic acid, carbon dioxide, oxides of nitrogen, potassium, and sulfur.

**Hazardous Polymerization:** Will not occur

## 7. SPILL OR LEAK PROCEDURES:

**Steps to be Taken in Case Material is Leaked or Spilled:** Keep combustibles away from spilled material. Clean up of spills may require personal protective equipment. See Section 8. Sweep up or vacuum the material and transfer to a sealed, labeled container. Residue may be washed away with water. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

**Waste Disposal Method:** Dispose of in accordance with Federal, State, and local regulations.

## 8. PERSONAL PROTECTION INFORMATION:

**Respiratory Protection:** NIOSH/MSHA approved for protection against toxic dusts and acid gases.

**Ventilation:** Local or general exhaust to maintain exposure below TLV/PEL.

**Protective Gloves:** PVC or Neoprene

**Eye Protection:** Splash-proof or dust resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

**Other Protective Clothing or Equipment:** Apron, boots, long sleeve shirt, and full length pants may be worn when necessary to prevent skin contact. Eyewash and shower facilities should be available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Precautions to be Taken in Handling and Storage:** Corrosive to cast iron and aluminum. Store in cool, dry, ventilated area, out of direct sunlight.

**Other Precautions:** Not determined

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### 10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

### 11. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.