

**Material
Safety
Data
Sheet**

Hi-Yield(R) Soil Sulfur

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)	
For Additional Information Contact: Product Manager or Chemtrec	Date Prepared: 03-14-03
Common Name (Used on Label): Hi-Yield(R) Soil Sulfur	Chemical Family: Sulfur
Chemical Name: Does not apply	Formula: Not determined
Trade Name & Synonyms: Hi-Yield(R) Soil Sulfur	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Sulfur (nuisance dust)	7704-34-9	Proprietary	10 mg/m3	15 mg/m3

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.

SECTION 3 - PHYSICAL DATA

BOILING POINT (°F) 444.6 degrees C	SPECIFIC GRAVITY (H ₂ O=1) 2.07	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Insoluble	REACTIVITY IN WATER Does not apply	
APPEARANCE AND ODOR Solid		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) 207 degrees C	FLAMMABLE LIMITS IN AIR (% by volume) Lower: 35 g/m3 Upper: 1400 g/m3	
EXTINGUISHING MEDIA Carbon dioxide, foam or water	AUTO IGNITION TEMPERATURE 232 degrees 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.		

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS		
Skin and eye contact, inhalation, ingestion		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) 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.		
(2) 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.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE		
Disorders of respiratory system, asthma, dermatitis, or other skin disorders.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN		
None		
NTP <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	OSHA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER EXPOSURE LIMITS		
TLV(nuisance dust)=10 mg/m3;PEL(nuisance dust)=15 mg/m3		
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.		

SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID Decomposes upon heating.
INCOMPATIBILITY (Materials to Avoid) Strong oxidizers, alkalis, organic agents, and other agents. Do not mix with other compounds.	
HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, phosphorous oxides, cyanuric acid, cyanic acid, carbon dioxide, oxides of nitrogen, potassium, and sulfur.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Avoid heating or direct exposure to sunlight.

SECTION 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.

SECTION 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 (or overalls) may be worn when necessary to prevent skin contact. Eyewash and shower facilities should be available.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Corrosive to cast iron and aluminum. Store in cool, dry, ventilated area, out of direct sunlight.

OTHER PRECAUTIONS

Not determined

SECTION 10 - 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.