



**VOLUNTARY PURCHASING GROUPS, INC.**

## Safety Data Sheet Hi-Yield Soil Sulfur

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### SECTION 1: Identification

#### Product identifier

Product name	Hi-Yield Soil Sulfur
Product number	32185; 33685, 34185,
Brand	Hi-Yield
Substance name	Sulfur

#### Recommended use of the chemical and restrictions on use

Keep away from heat sources, sparks, or open flames

#### Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA
Telephone	855-270-4776

#### Emergency phone number(s)

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

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### SECTION 2: Hazard identification

#### Classification of the substance or mixture

#### GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 2

#### GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

**Warning**

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### Hazard statement(s)

H315 Causes skin irritation

### Precautionary statement(s)

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P402 Store in a dry place.  
P403+P235 Store in a well-ventilated place. Keep cool.

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## SECTION 3: Composition/information on ingredients

### Substances

Substance name: Sulfur; Formula: S; Molecular weight: 32.07

Other names / synonyms: Sulfur

### Hazardous components

Component	Concentration
Sulfur (CAS no.: 7704-34-9)	90 % (weight)

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

If inhaled Move victim to fresh air. Watch for signs of an allergic reaction. Use a bronchodilator inhaler if directed by asthma patient. Keep victim warm and quiet. If not breathing, give artificial respiration. If heart has stopped beating, start cardiopulmonary resuscitation (CPR). SEEK MEDICAL ATTENTION.

In case of skin contact Wash skin thoroughly with mild soap and water. Wash exposed clothing separately before reuse.

In case of eye contact Immediately flush eyes with plenty of water for 15 minutes, while holding upper and lower lid apart to insure rinsing of entire eye surface and lids. Do not use boric acid to rinse with. FOR SEVERE IRRITATION, SEEK MEDICAL ATTENTION, preferably an ophthalmologist.

If swallowed Give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting does occur, give fluids again. If vomiting has not occurred in twenty minutes, the same dose of Syrup of Ipecac may be repeated one additional time. Alternatively, vomiting may be induced by touching the back of the throat with a finger. Do not give anything by mouth to an unconscious or convulsing person. SEEK MEDICAL ATTENTION

### Indication of immediate medical attention and special treatment needed, if necessary

Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur.

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## SECTION 5: Fire-fighting measures

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### Suitable extinguishing media

Water fog, spray, or regular foam. Do not use a direct water stream.

### Specific hazards arising from the chemical

Do not use solid streams of water, which could create sulfur dust clouds and cause an explosion or could move burning sulfur to adjacent areas.

Fire will rekindle until mass is cooled below 310°F (154°C). Cool surrounding areas with water fog to prevent re-igniting. Sulfur dust is HIGHLY FLAMMABLE. If suspended in air, it will ignite by friction, static electricity, heat, sparks, or flames. Sulfur dust clouds may explode.

### Special protective actions for fire-fighters

Firemen exposed to contaminated smoke should be immediately relieved and checked for symptoms of exposure of toxic gases. This should not be mistaken for heat exhaustion or smoke inhalation. SEEK MEDICAL ATTENTION IMMEDIATELY.

### Further information

Combustion Products:  
Sulfur oxide gases.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Minor spills such as torn or ruptured containers should be repaired or patched with tape if possible. Place spilled material in a disposable container. Avoid getting dust in eyes.

### Environmental precautions

Do not allow runoff to enter lakes or waterways.

### Methods and materials for containment and cleaning up

Gently sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking, to avoid creating a dust cloud. Place sweepings in an appropriate chemical waste container for reclaiming or disposal in an approved facility. Wash spill site after clean-up is complete.

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## SECTION 7: Handling and storage

### Precautions for safe handling

All handling and conveying equipment should be properly grounded and bonded. Be careful not to create dust. Avoid any conditions that might tend to create a dust explosion. Maintain good housekeeping practices to minimize dust build-up and dispersion. Eliminate sources of ignition. Keep away from heat, sparks, and flames. Use nonferrous tools, when available, to reduce sparking. Gently sweep or shovel up spilled materials using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.

### Conditions for safe storage, including any incompatibilities

Containers should be stored in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from flammable materials, sources of heat, flames, and sparks. Separate from chlorates, nitrates, and other oxidizing agents. Exercise due caution to prevent damage to or leakage from container.

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## SECTION 8: Exposure controls/personal protection

### Appropriate engineering controls

Maintain adequate ventilation in all areas. No flares or flames in area. Be careful not to create dust. Eliminate sources of ignition.

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### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear suitable, protective safety glasses to prevent eye irritation from dust.

#### Skin protection

Wear suitable, protective clothing to prevent skin irritation from dust. Wash skin thoroughly after handling and before eating or smoking. Wash contaminated clothing separately before reuse.

#### Respiratory protection

Wear dust masks and use NIOSH/MSHA approved dust respirator if airborne concentrations exceed exposure limits.

#### Environmental exposure controls

Follow best practice for site management and disposal of waste. Avoid release to the Controls environment.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid
Odor	Odorless, or faint odor of rotten eggs
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	117
Initial boiling point and boiling range	832° F (444° C)
Flash point	207°C (405 °F) Closed Cup
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	Upper: 6.38% (v) Lower: 0.17% (v)
Upper/lower explosive limits	No data available.
Vapor pressure	8 mmHg at 246°C (475°F) 1 mmHg at 183.8°C (362.8°F)
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

#### Other safety information

No data available.

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## SECTION 10: Stability and reactivity

#### Chemical stability

Stable

#### Possibility of hazardous reactions

Oxidizing agents may react violently.

#### Conditions to avoid

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Keep from heat sources, sparks, and open flames

### Incompatible materials

Oxidizing agents, copper, copper alloys, steel, chlorates, nitrates.

### Hazardous decomposition products

Oxides of sulfur gases produced by burning sulfur.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Skin corrosion/irritation

No adverse effects. Skin irritation may be aggravated in persons with existing skin lesions.

#### Serious eye damage/irritation

Sulfur dust is an eye irritant.

#### Respiratory or skin sensitization

Prolonged inhalation may cause irritation of respiratory tract. Breathing of dust may aggravate asthma and other pulmonary diseases.

#### Germ cell mutagenicity

Not Established

#### Carcinogenicity

Not Established

#### Reproductive toxicity

Not Established

#### Summary of evaluation of the CMR properties

No data available.

#### Additional information

Toxicity

LD50

Oral: >5050 mg/kg (rats)

Dermal: >2020 mg/kg (rats)

LC50

Inhalation @ 90%: >5.49-mg/L air concentration (rats)

Skin

Slightly irritating (rabbits)

Eye

Minimal irritation in non-washed eyes (rabbits)

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## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

No data available.

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### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

No data available.

### Other adverse effects

Toxicity to Fish

LC50

Oncorhynchus mykiss (rainbow trout) -> 180 mg/l -96h

LC50

Other fish -866 mg/l -96h

Toxicity to Daphnia and Other Aquatic Invertebrates

EC50

Daphnia magna (Water flea) -> 5,000 mg/l -48h

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## SECTION 13: Disposal considerations

### Disposal of the product

Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

### Disposal of contaminated packaging

Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

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## SECTION 14: Transport information

### DOT (US)

Solid sulfur is not regulated if transported in non-bulk packaging (less than 400kg per package) or if formed to a specific shape, such as prills, granules, pellets, pastilles, or flakes (49 CFR 172.102, special provision 30).

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Pennsylvania Right To Know Components

Chemical name: Sulfur

CAS number: 7704-34-9

#### New Jersey Right To Know Components

Common name: SULFUR

CAS number: 7704-34-9

#### Toxic Substances Control Act (TSCA) Inventory

This product is listed on the TSCA Inventory at CAS Registry Number 7704-34-9

#### CERCLA

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

If this product is accidentally spilled, it is not subject to any special reporting. We recommend that you contact state and local authorities to determine if there are other local reporting requirements.

#### NFPA Rating

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**SECTION 16: Other information**

No data available.