

**Section 1: Identification**

**Product Name** Sulfur, Precipitated USP  
**Commercial Name** Not available.  
**Product Use** Industrial, manufacturing, or laboratory use  
**Restrictions On Use** Not available.  
**Product Code** 50-1218  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Skin irritation: Category 2. Flammable solid: Category 2  
**CFR 1910.1200**

**Signal Word** WARNING

**Hazard Statement(s)** Flammable solid. Causes skin irritation.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection.

**Response** IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry chemical, alcohol-resistant foam or carbon dioxide to extinguish fire.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container to an approved waste disposal plant.

**Section 3: Composition/Information on Ingredients**

**Substance/Mixture** Substance  
**Components** Sulfur  
**% By Weight** >99%  
**CAS#** 7704-34-9  
**Molecular Weight** 32.06 g/mole.  
**Chemical Formula** N/A  
**Synonym(s)** Not available.

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Sulfur	7704-34-9	>99	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin Contact</b>	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
<b>Eye Contact</b>	Rinse with plenty of water for at least 15 minutes and seek medical attention.
<b>Ingestion</b>	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.
<b>Symptoms/Effects</b>	
<b>Acute</b>	N/A
<b>Delayed</b>	N/A

**Immediate Medical Attention**

Not available.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

May form combustible dust in air. Use appropriate media for adjacent fire. For a small fire, use dry chemical powder. For a large fire, use water spray or fog.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Emits toxic fumes (sulfur dioxide) under fire conditions. See also Stability and Reactivity section.

**Firefighters Special Equipment and Precautions**

Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**Section 6: Accidental Release Measures**

Personal precautions, protective equipment, and emergency procedures: See section 8 for recommendations on the use of personal protective equipment. Environmental precautions: Do not let product enter drains. Any release to the environment may be subject to federal/national or local reporting requirements. Methods and materials for containment and cleaning up: Sweep up and place in a suitable container for disposal. Clean surfaces with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations.

**Section 7: Handling and Storage**

Precautions for safe handling: See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Do not breathe dust. Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated area in a tightly-closed, plainly-labeled container. Protect against moisture and light. Maintain adequate ventilation. Wash thoroughly after handling. Keep away from incompatible materials (see section 10 for incompatibilities).

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Occupational Exposure Controls: Component: Sulfur, Exposure limits: 5 mg/m <sup>3</sup> , Basis: TWA (Time weighted average over 8 hours of work), Entity: USA OSHA Component: Sulfur, Exposure limits: 15 mg/m <sup>3</sup> , Basis: TWA, Entity: USA OSHA
<b>Engineering Controls</b>	Engineering Controls: Use process enclosures, local ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	Personal Protection: Eyes: Wear chemical safety glasses or goggles. Inhalation: Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. Skin: Wear chemical resistant gloves, apron and other protective clothing appropriate to the risk of exposure. Other recommendations: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Yellow powder, crystals, lumps, or flakes.		
<b>Odor</b>	Slight to odorless		
<b>Odor Threshold</b>	Not available		
<b>Melting Point</b>	118-120°C (244-248°F)	<b>pH</b>	Not available
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	10 hPa (8 mmHg) at 246°C (475°F)
<b>Boiling Point/Range</b>	435°C (833°F)	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	204°C (405°F)	<b>Autoignition temperature</b>	232°C (450°F)
<b>Flammability</b>	Flammable solid	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	0.17%
		<b>Upper</b>	6.83%
<b>Solubility(ies)</b>	Insoluble		
<b>Other</b>	Relative density: 2.05 g/cm <sup>3</sup> at 20°C (68°F)		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Conditions to Avoid</b>	Excessive heat, ignition sources.
<b>Incompatible Materials</b>	Alkali and alkaline earth metals (sodium, potassium, lithium,
<b>Hazardous Decomposition Products</b>	Sulfur Oxides.

**Section 11: Toxicological Information****RTECS** WS4250000**Acute Toxicity**

Skin: LD50 Dermal - rabbit - > 2,000 mg/kg. Eyes: N/A. Respiratory: LC50 Inhalation - rat - 4 h - > 9.23 mg/l. Ingestion: LDLO Oral - rabbit - 175 mg/kg. LD50 Oral - rat - > 2,000 mg/kg. Other: LDLO Intravenous - rat - 8 mg/kg LDLO Intravenous - rabbit - 5 mg/kg LDLO Intraperitoneal - guinea pig - 55 mg/kg LDLO Intravenous - dog - 10 mg/kg

**Skin Corrosion/Irritation**

Skin: Irritation, itching, swelling, redness, and pain.

**Serious Eye Damage/Irritation**

Eyes: Irritation, itching, swelling, redness, and pain

**Respiratory or Skin Sensitization**

Irritation to mucous membranes and upper respiratory tract characterized by itching,

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.

**Reproductive Toxicity**

Not available

**Routes of Entry**

Inhalation. Ingestion.

**Symptoms Related to Exposure**

Eyes: Irritation, itching, swelling, redness, and pain

**Potential Health Effects**

Irritation. May cause nausea, vomiting and pain.

**Target Organ(s)** Not available

**Section 12: Ecological Information****Ecotoxicity**

Aquatic Vertebrae: LC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h. LC50 - other fish - 866 mg/l - 96 h. Aquatic Invertebrae: EC50 - Daphnia magna (Water flea) - > 5,000 mg/l - 48 h

**Persistence and Degradability**

Not available.

**Bioaccumulative Potential**

Does not accumulate.

**Mobility in Soil**

Not available

**Other Adverse Effects**

Not available

**Section 13: Disposal Considerations****Waste Disposal**

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.

**Disposal of Container**

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

**Other Considerations**

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

**Section 14: Transport Information****DOT Classification**

US DOT: Not regulated TDG: UN1350, SULFUR, 4.1, PG III IMDG: UN1350, SULFUR, 4.1, PG III Marine Pollutant: No IATA/ICAO: UN1350, SULFUR, 4.1, PG III

**Section 15: Regulatory Information****Regulations**

TSCA Inventory Status: All ingredients are listed on the TSCA inventory. DSCL (EEC): All ingredients are listed on the DSCL inventory. California Proposition 65: Not listed SARA 302, 304, and 313: Not listed SARA 311 and 312: Fire hazard, Acute Health Hazard WHMIS Canada: Class B-4: Flammable solids. Class D-2B: Poisonous and infectious material- Other effects- Toxic.

**Other**

Not available.

**Section 16: Other Information**

Not available.