

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification**Product Name** SELENIUM SULFIDE USP MICRONIZED**Commercial Name** N/A**Product Use** N/A**Restrictions On Use** N/A**Product Code** 30-5139**Company** PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300**Section 2: Hazard(s) Identification****OSHA Haz Com:** Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Oral (Category 3), H301 Specific target organ toxicity - repeated exposure (Category 2), H373 Chronic aquatic toxicity (Category 1), H410**CFR 1910.1200****Signal Word** WARNING**Hazard Statement(s)** Toxic if swallowed. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.**Pictogram(s) or Symbol(s)****Precautionary Statement(s):****Prevention**

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P264: Wash thoroughly after handling. P270: Do not eat, drink, or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P314: Get medical advice/attention if you feel unwell. P330: Rinse mouth. P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P391: Collect spillage.

Storage

P405: Store locked up. P403+233: Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Section 3: Composition/Information on Ingredients**Substance/Mixture** Substance**Components** Selenium sulfide**% By Weight** N/A**CAS#** 7488-56-4**Molecular Weight** 143.09 g/mol**Chemical Formula** SeS₂**Synonym(s)** Selenium disulfide**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Selenium Sulfide	7488-56-4	N/A	N/A	N/A

Section 4: First-Aid Measures

Inhalation	Remove person to fresh air. If breathing is difficult, give oxygen. In case the person is not breathing administer artificial respiration. Get medical attention.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and shoes before reuse. Get medical attention if irritation develops.
Eye Contact	Immediately flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. Hold eyelids apart during irrigation. Get medical attention.
Ingestion	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Symptoms/Effects**Acute** N/A**Delayed** N/A**Immediate Medical Attention**

Always get medical attention after the first aid is over.

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

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

N/A

Products of Combustion

Special hazards arising from the substance or mixture: Sulfur oxides, selenium/selenium oxides

Firefighters Special Equipment and Precautions

Use suitable protective equipment for surrounding fire. Not considered to be a fire and explosion hazard.

Section 6: Accidental Release Measures

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Don't touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

Section 7: Handling and Storage

Handling: Wash hands before eating. Use with adequate ventilation. Avoid breathing dust. Avoid contacting skin, eyes, and clothing. Avoid prolonged or repeated exposure. Storage: Keep selenium sulfide in a tightly closed container and store in a cool, dry, well-ventilated place. Protect against physical damage. Isolate selenium sulfide from all incompatible substances.

Section 8: Exposure Controls/Personal Protection

Exposure Limits OSHA PEL: 0.2 mg/COM Ceiling for Selenium compounds (as Se) ACGIH TLV: 0.2 mg/CBM (TWA) Selenium compounds (as Se)

Engineering Controls Use adequate exhaust ventilation to keep airborne concentrations below the allowable exposure limit,
Personal Protection Eyes: Wear appropriate protective eyeglasses or chemical safety goggles. Skin: Wear appropriate protective gloves. Respiratory System: Approved or certified respirators. Other Protective Equipments: Overalls or similar protective apparel. clean up facilities. Don't eat, drink, or smoke in work areas. Wash hands thoroughly after handling this material.

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Section 9: Physical and Chemical Properties

Appearance	Reddish solid		
Odor	Slight		
Odor Threshold	N/A		
Melting Point	121°C	pH	2-6
Freezing Point	N/A	Vapor Pressure	N/A
Boiling Point/Range	N/A	Vapor Density	N/A
Decomposition temperature	N/A	Viscosity	N/A
Partition Coefficient: n-octanol/water	N/A	Evaporation Rate	N/A
Flash Point	N/A	Autoignition temperature	N/A
Flammability	N/A	Flammability or Explosive Limits:	
		Lower	N/A
		Upper	N/A
Solubility(ies)	N/A		
Other	N/A		

Section 10: Stability and Reactivity

Reactivity	N/A
Chemical Stability	Selenium sulfide is stable under normal temperatures and pressures.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	Incompatible materials, exposure to moist air or water, excessive heat.
Incompatible Materials	Strong reducing agents, strong acids, ammonia, organic materials, powdered metals.
Hazardous Decomposition Products	Sulfur oxides, oxides of selenium.

Section 11: Toxicological Information

RTECS	N/A
Acute Toxicity	
Toxicity to Animals: LD50 Oral - Rat - 138 mg/kg	
Skin Corrosion/Irritation	
N/A	
Serious Eye Damage/Irritation	
N/A	
Respiratory or Skin Sensitization	
N/A	
Germ Cell Mutagenicity	
N/A	
Carcinogenicity	
Not listed as a suspected/confirmed carcinogen by ACGIH, IARC, NTP, SHA.	
Reproductive Toxicity	
N/A	
Routes of Entry	
N/A	
Symptoms Related to Exposure	
N/A	

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Potential Health Effects

N/A

Target Organ(s) May cause damage to organs through prolonged or repeated exposure.**Section 12: Ecological Information****Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability

Soluble in water. Persistence is unlikely.

Bioaccumulative Potential

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Mobility in Soil

N/A

Other Adverse Effects

Environmental Precautions: DO NOT DISCHARGE into drains and rivers.

Section 13: Disposal Considerations**Waste Disposal**

Dispose of in accordance with all applicable local, state, and federal regulations at an approved waste disposal facility.

Disposal of Container

N/A

Other Considerations

N/A

Section 14: Transport Information**DOT Classification**

DOT (USA): UN-No UN2657 Proper Shipping Name: SELENIUM DISULPHIDE Hazard Class 6.1 Packing Group II IMDG/IMO:
UN-No UN2657 Proper Shipping Name: SELENIUM DISULPHIDE Hazard Class 6.1 Packing Group II IATA: UN-No UN2657 Proper
Shipping Name: SELENIUM DISULPHIDE Hazard Class 6.1 Packing Group II ADR/RID: UN-No UN2657 Proper Shipping Name:
SELENIUM DISULPHIDE Hazard Class 6.1 Packing Group II

Section 15: Regulatory Information**Regulations**

USA: -TSC 12(b): Not applicable -SARA 311/312: Hazardous Categorization: Acute Health Hazard; Chronic Health Hazard
-California Prop 65: Not applicable Canada WHMIS: DIA Very toxic materials, D2B Toxic materials

Other

N/A

Section 16: Other Information

EINECS EC Number: 231-308-8 H30 = Toxic if swallowed. H301+H331 = Toxic if swallowed or if inhaled. H331 = Toxic if inhaled.
H373 = May cause damage to organs through prolonged or repeated exposure. H400 = Very toxic to aquatic life. N = Dangerous for
the environment T = Toxic R23/25 = Danger of cumulative effects. R50/53 = Very toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment. USES: SELENIUM SULFIDE: Used in the treatment of dandruff and seborrheic
dermatitis of the scalp & "head skin (scalp) sebum and body skin sebum control)