

213-217 Lab

# International Chemical Safety Cards

## SULFUR

ICSC: 1166

<p style="text-align: center;"><b>SULFUR</b>            Flowers of sulfur            Flour sulfur            S            Atomic mass: 32.1            Molecular mass: 256.5 (S8)</p> <p>CAS # 7704-34-9            RTECS # WS4250000            ICSC # 1166            UN # 1350</p>			
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TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames, NO sparks, and NO smoking.	Water spray. Foam. Powder. Dry sand.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		PREVENT DISPERSION OF DUST!	
• <b>INHALATION</b>	Burning sensation. Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
• <b>SKIN</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• <b>EYES</b>	Redness. Pain. Blurred vision.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• <b>INGESTION</b>	Burning sensation. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers. Dampen and sweep gently to avoid raising dust (extra personal protection: P1 filter respirator for inert particles).	Fireproof. Separated from strong oxidants.	UN Haz Class: 4.1 UN Pack Group: III

### SEE IMPORTANT INFORMATION ON BACK

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Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities © IPCS CEC 1993

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I M P O R T A N T  D A T A	<b>PHYSICAL STATE; APPEARANCE:</b> YELLOW POWDER.	<b>ROUTES OF EXPOSURE:</b> The substance can be absorbed into the body by inhalation and by ingestion.
	<b>PHYSICAL DANGERS:</b> Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc.	<b>INHALATION RISK:</b> Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.
	<b>CHEMICAL DANGERS:</b> On combustion, forms sulfur oxides including sulfur dioxide (see ICSC # 0074). Reacts violently with strong oxidants causing fire and explosion hazard.	<b>EFFECTS OF SHORT-TERM EXPOSURE:</b> The substance irritates the eyes, the skin and the respiratory tract. Inhalation of powder of this substance may cause inflammation of the nose and the respiratory tract.
	<b>OCCUPATIONAL EXPOSURE LIMITS (OELs):</b> TLV not established.	<b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b> Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the respiratory tract , resulting in chronic bronchitis.
	<b>PHYSICAL PROPERTIES</b>	Boiling point: 445°C Melting point: 113-120°C Relative density (water = 1): 2.1 Solubility in water: none
<b>ENVIRONMENTAL DATA</b>		
<b>NOTES</b>		
Often transported in molten state (UN 2448; TEC(R)-115). Depending on the degree of exposure, periodic medical examination is indicated.		
Transport Emergency Card: TEC (R)-115A NFPA Code: H 1; F 1; R 0		
<b>ADDITIONAL INFORMATION</b>		
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SULFUR		
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