



# MATERIAL SAFETY DATA SHEET



## Sulfur

### Section 1 - Chemical Product and Company Identification

MSDS Name:	Sulfur
Synonyms:	
Company Identification:	Hazel Mercantile Ltd
Company Identification: (INDIA)	701/712A, Embassy Centre, Nariman Point, Mumbai -400 021,
For information in the INDIA, call:	+91-22-2282 4444 (50 Lines)

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7704-34-9	Sulfur	>99.4%	231-722-6

Hazard Symbols:	XI F
	
Risk Phrases:	11 36/37/38

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Highly flammable. Irritating to eyes, respiratory system and skin.

#### Potential Health Effects

Eye:	Causes eye irritation. Effects may be delayed. Causes redness and pain.
Skin:	Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation:	Causes respiratory tract irritation. May be harmful if inhaled.
Chronic:	Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation may cause effects similar to those of acute inhalation.

### Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician:	Treat symptomatically and supportively.



### Section 5 - Fire Fighting Measures

<b>General Information:</b>	Evacuate area and fight fire from a safe distance. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Flammable solid.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.

### Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool.

### Section 7 - Handling and Storage

<b>Handling:</b>	Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges.
<b>Storage:</b>	Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

### Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.
<b>Exposure Limits</b>	CAS# 7704-34-9: Russia: 6 mg/m3 TWA (aerosol)

#### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	yellow
<b>Odor:</b>	odorless
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	10mmHg @246 deg C
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	445 deg C @760mmHg ( 833.00°F)
<b>Freezing/Melting Point:</b>	114 deg C ( 237.20°F)
<b>Autoignition Temperature:</b>	235 deg C ( 455.00 deg F)
<b>Flash Point:</b>	168 deg C ( 334.40 deg F)
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Insoluble
<b>Specific Gravity/Density:</b>	2.070
<b>Molecular Formula:</b>	S
<b>Molecular Weight:</b>	32.05

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	High temperatures, incompatible materials, ignition sources, dust generation, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Metals, strong oxidizing agents, strong oxidizing agents, strong acids, ammonia, bromine trifluoride, halogenated agents, halogens, potassium permanganate, boron, metal oxides.
<b>Hazardous Decomposition Products</b>	Sulfur oxides (SOx), including sulfur oxide and sulfur dioxide.
<b>Hazardous Polymerization</b>	Will not occur

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 7704-34-9: WS4250000
<b>LD50/LC50:</b>	RTECS: Not available. Other: Oral, rat: LD50 > 5gm/kg Irritation: Eye, human: 8 ppm
<b>Carcinogenicity:</b>	Sulfur - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

## Section 12 - Ecological Information

Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.



### Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	SULPHUR	SULPHUR	SULPHUR
Hazard Class:	4.1	4.1	4.1
UN Number:	1350	1350	1350
Packing Group:	III	III	III

### Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI F
<b>Risk Phrases:</b>
➤ R 11 Highly flammable.
➤ R 36/37/38 Irritating to eyes, respiratory system and skin.
<b>Safety Phrases:</b>
➤ S 16 Keep away from sources of ignition - No smoking.
➤ S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
➤ S 37/39 Wear suitable gloves and eye/face protection.
<b>WGK (Water Danger/Protection)</b>
➤ CAS# 7704-34-9: 1
<b>Canada</b>
➤ CAS# 7704-34-9 is listed on Canada's DSL List
<b>US Federal</b>
➤ TSCA
➤ CAS# 7704-34-9 is listed on the TSCA Inventory.

### Section 16 - Other Information

<b>MSDS Creation Date:</b>	08/16/2007
<b>Revision #1 Date</b>	

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