

## MATERIAL SAFETY DATA SHEET CRUDE SULPHUR

### Section 1 – Identification of Supplier

**Product name:** Sulphur, Crude Sulphur

**Shipping name:** Sulphur, Crude Sulphur

**Supplier's details:** Chemical Initiatives (Pty) Ltd.

**Address:** AECI Place, Building 24, The Woodlands, Woodlands Drive, Woodmead, 2196, South Africa

**Telephone number**

+27 11 806 8700

**Emergency number**

+27 11 608 3300

### Section 2 – Hazard Identification

**Substance identification:** Sulphur, granular sulphur and sulphur logs.

**Precaution statement:** Highly flammable. Low toxicity dust. May cause irritation to the skin and eyes.

### Section 3 – Composition / Information on Ingredients

Concentration	S Phrase	R Phrase
Ca. 100%	S26	R11
	S41	R16
	S50	

R and S Phases according to EC Directive 67/548/ECC.

### Section 4 – First Aid Measures

**Inhalation:** Remove patient from exposure. Obtain immediate medical attention.

**Skin contact:** Wash dust on skin with soap and water.

**Eye contact:** Immediately irrigate with clean water, holding eyelids apart, for at least 20 minutes. Obtain immediate medical attention.

**Ingestion:** Do not induce vomiting. Wash out mouth with water and give 200-300ml of water to drink. Obtain immediate medical attention.

**Further professional medical assistance:** Symptomatic treatment and supportive therapy as indicated.

## Section 5 – Fire Fighting Measures

**Flash point:** 178°C

**Auto-ignition temperature:** 190°C

**LEL:** Not applicable.

**UEL:** Not applicable.

**Extinguishing media agent:** Water spray. Dry powder or carbon dioxide.

**Special protective equipment:** A self-contained breathing apparatus and full protective clothing should be worn in fire conditions.

**Combustion products:** May generate hydrogen sulphide when there is a change of state.

Combustible. Highly flammable. Crystalline sulphur deposits/dusts are ready ignitable. Forms spontaneously flammable or explosive mixtures with charcoal, oxidizing agents and some finely divided metals or their oxides. Thermal decomposition will evolve large quantities of sulphur dioxide.

## Section 6 – Accidental Release Measures

**Personal Protection:** Wear appropriate personal protective equipment as specified in section 8.

**Environmental precaution:** Ventilate area of spill or leak. Isolate area. Keep unnecessary and unprotected personnel from entering.

**Methods for cleaning up:** Contain and recover granules and dust where possible. Sweep and if contaminated dispose in a chemical waste container. Do not use combustible materials such as sawdust.

## Section 7 – Handling and Storage

**Precautions for safe handling:** Control dust formation. Avoid contact with eyes, skin and ingestion.

**Precautions for safe storage:** Keep containers in a cool, well-ventilated area. Keep away from oxidizing agents.

## Section 8 - Exposure Controls and Personal Protection

**Components:**

TWV: 10 mg/m<sup>3</sup>

TWA: 15 mg/m<sup>3</sup> (8 hours)

TLV-STEL: 21 mg/m<sup>3</sup> (15 minutes)

Wear suitable protective clothing and gloves. Wear eye/face protection. Goggles are the minimum protection. When handling solid, dust mask should be worn.

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Yellow to dark brown crystals and powder at room temperature, liquid at high temperature 130-145°C.
<b>Odour:</b>	Odourless.
<b>Boiling point:</b>	444°C.
<b>Melting point:</b>	115-119°C.
<b>Solubility (water):</b>	Insoluble.
<b>Solubility (other):</b>	Carbon disulphide.

## Section 10 – Stability and Reactivity

**Hazardous reaction and decomposition:** Sulphur dioxide, hydrogen sulphide.

**Hazardous reactions:** Readily attacks steel in the presence of moisture, due to acid contamination.

## Section 11 – Toxicology

**Eye contact:** Causes irritation. Effects may not be immediately apparent and may only occur on entering a warm atmosphere or when standing close to a source of heat.

**Ingestion:** Dust is unlikely to be hazardous if swallowed.

**Skin contact:** Dust may cause irritation.

**Inhalation:** Dust may cause irritation to the respiratory tract.

**Long term exposure:** No known hazards.

### Section 12 – Ecological Information

Users should ensure that they comply with local, provincial and national environmental legislation. Environmental fate and mobility, persistence, degradation, bio-accumulation and effect on effluent treatment: no information available.

**Persistence, degradation, bio-accumulation:** No information available.

**Effect on effluent treatment:** No information available.

### Section 13 – Disposal Considerations

Disposal should be in accordance with local or national legislation. Material, waste residues and contaminated packaging should be disposed of at a registered disposal site according to the Environmental conservation act. Recover, reclaim or recycle if practicable. Bury on an authorized landfill site.

### Section 14 - Transport

<b>Hazchem code:</b>	2Z.
<b>UN:</b>	1350 (solid sulphur)
<b>IMDG class:</b>	4.1.
<b>Packing group:</b>	III.
<b>Subsidiary risk:</b>	None.
<b>ERG:</b>	133.
<b>Marine pollutant:</b>	No.

**Other precautions/provisions** Carriage in; bulk closed or sheeted vehicles; closed containers or in large sheeted containers. Sulphur is not considered dangerous for transport when it has been formed into a specific shape (e.g. prills, granules, pellets or flakes).

### Section 15 – Regulatory Information

Users should ensure that they comply with relevant local, state or national legislation

### Section 16 – Other Information

**DISCLAIMER:**

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**Compiled by:**

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