

RAW MATERIAL AND PRODUCT SPECIFICATION: SPE.PROD.0019

Section 1 – GENERAL	
Product Name:	Sulphur (Crude)
Description:	Essentially unground elementary sulphur, in the form of either yellow to dirty-yellow lumps of up to about 300 mm diameter together with some fines, or a yellowish, coarse powder (screened).
Properties:	Melting point : 112.8°C Flash point (closed cup) : 207.2°C Auto ignition temperature : 232.2°C
Toxicity:	The material is moderately toxic (Rating 3 according to "Clinical Toxicology of Commercial Products"). The probable lethal dose to humans is 0, 5 to 5g/kg body mass
Hazards:	The material may burn when exposed to heat and flames, emitting highly toxic fumes of oxides of sulphur. The dust presents a dangerous explosion hazard if suspended in the atmosphere; it can cause severe eye irritation as well as irritation to the skin and respiratory tract.
Special Precautions:	Store away from heat, naked flames and oxidising agents. Avoid ingestion and inhalation. Wear face mask or goggles when handling large quantities of the material.
Statutory Aspects:	Transported as Dangerous Goods: UN 1350 Material Safety Data sheet

Section 2 – SPECIFICATION	
Appearance:	The material shall be a yellow to dirty-yellow lumps together with some fine or a yellowish, coarse powder, free from foreign matter.
Sulphur:	Not less than 99.5% (m/m) as S (on dry basis)

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Carbon:	Not more than 0.16% (m/m) as C (on dry basis)
Mineral Residue (Ash):	Not more than 0.15% (m/m) (on dry basis)
Moisture:	Not more than 3.00% (m/m)

Section 3 – SUPPLIER

Refineries and Chemical Initiatives (Pty) Ltd, Umbogintwini

Section 4 – TESTING

TESTING

The material is sampled and tested according to the most recent editions of the Sampling Procedures and Analytical Schedule respectively. The sample is tested to the most recent edition of the methods specified below.

<u>PARAMETER</u>	<u>METHOD NO.</u>
3.1 Appearance	
3.2 Sulphur	UMBOG 59
3.3 Carbon	UMBOG 59
3.4 Mineral Residue (Ash)	UMBOG 59
3.5 Moisture	UMBOG 59

This product is tested at: Umbogintwini Factory.

Section 5 – USES AND PACKING

Uses

- i) For sulphur dioxide manufacture
- ii) For sulphuric acid manufacture
- iii) For various industrial applications

Packing

The material is packed in containers conforming to the most recent issue of Chemical Initiatives Packaging Specification and loaded in bulk trucks.

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Section 6 – DOCUMENTATION

This specification is based on: Information from Umbogintwini Factory.

Section 7 – REASON FOR REVISION

October 2013 – New template