

Section 1 – GENERAL	
Product Name:	Oleum
Description:	A solution of sulphur trioxide in concentrated sulphuric acid, in the form of off-white to grey or light brown, slightly turbid, oily, fuming liquid which may contain sediment.
Properties:	Vapour pressure at 55 °C : 38,3 kPa Density at 20 °C : 1,92 g/cm ³
Toxicity:	Has a rating 4 according to Clinical Toxicology of Commercial Products (extremely toxic). The probable lethal dose (to humans) is 50 to 500 mg/kg of body mass. TWA OEL-RL: 1 mg/m ³
Hazards:	The material is extremely corrosive to body tissue and contact with concentrated acid results in rapid destruction of tissue, causing severe burns. Ingestion may cause severe injury and can result in death. Repeated contact with dilute solution causes dermatitis. Inhalation of concentrated vapours and mists results in serious damage to lung tissue and can cause unconsciousness. Eye contact may result in serious damage and total loss of vision. The material is a very powerful acidic oxidizer which can ignite or even explode on contact with many materials; i.e. acetic acid, carbides, chlorates, fulminates, perchlorates, etc. It reacts exothermically with water, resulting in steam being evolved due to heat. When heated the material emits highly toxic fumes. Dilute acid is corrosive to most metals with evolution of flammable hydrogen.
Special Precautions:	Full protective clothing and a face shield must be worn when handling the material. Avoid ingestion, inhalation, skin and eye contact. Store away from combustibles, bases and reducing materials. Always add Oleum slowly to diluents.
Statutory Aspects:	UN 1831. Transported as Dangerous Good. Chemical Initiatives (Pty) Ltd: Material Safety

PRODUCT SPECIFICATION

	Data Sheet. Occupational Health and Safety Act, No:85 OF 1995
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Section 2 – SPECIFICATION

Appearance:	The material is an off white to grey or light brown, slightly turbid, oily, fuming liquid which may contain sediments of white, anhydrous ferrous sulphate. The material should be free from other visible impurities.
Strength:	To lie within the range 104.5% to 105, 4 % (m/m) as H ₂ SO ₄ .
Iron:	Not more than 100 p.p.m. (m/m) as Fe

Section 3 – 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 method specified.

<u>PARAMETER</u>	<u>METHOD NO.</u>
3.1 Appearance	-
3.2 Strength	UMBOG 54
3.3 Iron	AECI METHOD No. 97

This product is manufactured at Umbogintwini. The material is either, tested and used at Umbogintwini or sold directly to the customer.

Section 4 – PACKING

Sold in bulk only.

Section 5 – DOCUMENTATION

This specification is based on: Information from Umbogintwini Factory.

Section 6 – USES

In the manufacture of mixed acids

In the manufacture of detergents and for other industrial purposes

PRODUCT SPECIFICATION

Section 7 – REASON FOR REVISION

June 2013 – New template

October 2015- SharePoint template