

**MATERIAL SAFETY DATA SHEET  
SULPHUR DIOXIDE**

**Section 1 – Identification of Supplier**

**Product name:** Sulphur Dioxide

**Shipping name:** Sulphur Dioxide (liquid), Sulphurous Anhydride

**Suppliers details:** Chemical Initiatives (Pty) Ltd

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

**Telephone number**  
+27 11 8068700

**Emergency number**  
+27 11 608 3300

**Section 2 – Hazard Identification**

**Component**  
Sulphur dioxide

**Label elements:**



**Warning:** Toxic gas.

**Precautions statement:**

As a minimum use safety goggles, full protective suit and rubber gloves. If exposure levels are high, wear a self-contained breathing apparatus.

**Other hazards:**

Poisonous by inhalation and corrosive to the eyes.

**Section 3 – Composition / Information on Ingredients**

Ca. 100 %.

**Section 4 – First Aid Measures**

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

**Skin contact:** Remove contaminated clothing. Wash with copious amounts of water for 20 minutes. Obtain immediate medical attention.

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

**Ingestion:** 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. In cases of inhalation, rest and hospitalization is essential. The administration of a corticosteroid-containing spray, and an authorized person should be considered.

## Section 5 – Fire Fighting Measures

**Flash point:** Auto-ignition temperature is not applicable.

**LEL:** not applicable.

**UEL:** not applicable.

**Extinguishing media agent:** Firefighting requirements should be determined by surrounding materials.

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

Product is combustible and a water spray should be used to cool containers.

## Section 6 – Accidental Release Measures

**Personal Protection:** Evacuate the area. Use self-contained breathing apparatus.

**Environmental precaution:** Use water curtains downwind to reduce vapor emissions.

**Methods for cleaning up:** Move container to a safe area.

## Section 7 – Handling and Storage

**Precautions for safe handling:** Avoid contact with eyes, skin and ingestion. Do not breathe vapor. Use only in well ventilated areas.

**Precautions for safe storage:** The material is stored under pressure. Ensure that the material is not confined or trapped in pipework without adequate pressure release valve. Store the material in a cool, well ventilated place.

## Section 8 – Exposure Controls and Personal Protection

**Components:** TWV: 5.2 mg/m<sup>3</sup>      TWA: 13 mg/m<sup>3</sup>      ACGIH: 92 to 93

**Personal protection:** As a minimum use safety goggles, full protective suit and rubber gloves. If exposure levels are high, self-contained breathing apparatus should be worn.

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Colorless liquefied gas.
<b>Odour:</b>	Characteristic pungent.
<b>Boiling point:</b>	– 10 °C
<b>Melting point:</b>	– 76 °C
<b>Vapour pressure:</b>	2538 mmHg (21 °C)
<b>Relative density (liquid):</b>	1.40 g/ml
<b>Vapour density (air = 1)</b>	2.3

## Section 10 – Stability and Reactivity

**Hazardous reaction and decomposition:** It can react with halogens, lithium nitrate, potassium chlorate, metal acetylides and sodium hydride. Under wet conditions will corrode metals and metals and metal oxides.

## Section 11 – Toxicology

**Eye contact:** Vapor may cause severe damage to the eyes.

**Ingestion:** May cause corrosion of to the gastrointestinal tract.

**Inhalation:** Vapor may cause irritation to the respiratory tract. Fluid buildup on the lung (pulmonary oedema) may occur up to several hours after exposure and could prove fatal.

**Skin contact:** High concentrations of vapor may cause chemical burns.

**Long term exposure:** here is some indication of individual susceptibility.

### Section 12 – Ecological Information

Users should ensure that they comply with local, provincial and national environmental legislation.

**Environmental fate and mobility:** No information available.

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

**Effect on effluent:** Toxic to aquatic organisms.

### Section 13 – Disposal Considerations

Disposal should be in accordance with local or national legislation. Recover, reclaim or recycle if practicable.

### Section 14 - Transport

	Land	Air	Sea
<b>UN:</b>	1079	1079	1079
<b>Proper Shipping name:</b>	Sulphur Dioxide	Sulphur Dioxide	Sulphur Dioxide
<b>Transport Hazard Classes:</b>	2.3	2.3	2.3
<b>Packing Group:</b>	n/a	n/a	n/a
<b>Subsidiary Risk:</b>	8 (toxic and corrosive gas)	8 (toxic and corrosive gas)	8 (toxic and corrosive gas)
<b>ERG:</b>	125	125	125
<b>Marine Pollutant:</b>	No	No	No

**PBLO Requirements:**

**L9** – Packages shall not be thrown or subject to impact. Receptacles shall be so stowed in the vehicle or container that they cannot overturn or fall.

**L10** – Cylinders shall be laid parallel or upright angles to the longitudinal axis of the vehicle or container, however, those situated near the forward transverse wall shall be laid at upright angles to the said axis.

Short cylinders of large diameter (about 30 cm and over) may be stowed longitudinal with their valve protecting devices directed towards the middle of the vehicle or container.

Cylinders which are sufficiently stable or are carried in suitable or carried in a suitable devices effectively preventing them from overturning may be placed upright.

Cylinders which are laid flat shall be securely and appropriately wedged, attached or secured so that they cannot shift.

**L36** – Packages shall preferably be loaded in open or ventilated vehicle containers. If this is not feasible and packages are carried in other closed vehicles or containers, the cargo doors of the vehicles or containers shall be marked with the following: WARNING, NO VENTILATION OPEN WITH CAUTION. This shall be in a language considered appropriate by the consignor.

**O17** – Each member of the vehicle crew shall be provided with a respiratory protective device enabling the crew member to escape when carrying gasses or articles classified as toxic or with a toxic subsidiary risk.



## Section 15 – Regulatory Information

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

## Section 16 – Other Information

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