

**MATERIAL SAFETY DATA SHEET  
ALUMINIUM SULPHATE SOLUTION**

**Section 1 – Identification of Supplier**

**Product name:** Aluminium Sulphate Solution  
**Shipping name:** Aluminium Sulphate Solution

**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**  
Aluminium  
Sulphate

**Label elements**



**Warning:** Highly corrosive.

**Precautions**

**Statement:**  
Wear gloves,  
face protection  
and acid proof  
protective  
clothing.

**Other Hazards:**

Contact with skin  
and eyes may  
cause irritation.  
Swallowing may  
cause nausea or  
vomiting.

**Precautionary statements: prevention:** May cause corrosion to skin, eyes and respiratory tract.

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

Aluminium Sulphate: 5 – 10 %.  
Water: Balance  
Red brown to off-white aqueous solution.

**Section 4 – First Aid Measures**

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

**Skin contact:** Wash skin with 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:** Do not induce vomiting. Wash out mouth with water and give 200-300ml (half a pint) 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:** Auto-ignition temperature is not applicable.

**LEL:** not applicable.

**UEL:** not applicable.

**Extinguishing agent:** Use extinguisher appropriate for surrounding fire.

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

**Combustion products:** Thermally decomposes to evolve sulphur dioxide and sulphur trioxide which are corrosive, flammable and toxic.

### 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:** Neutralize residue with alkali (soda ash), wash area to drain with water. Contain spillage, absorb with absorbent material (e.g. earth) then shovel into well labeled containers for disposal/recovery.

### Section 7 – Handling and Storage

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

**Precautions for safe storage:** Keep containers in a cool, well-ventilated area with

lids tightly closed.

### Section 8 – Exposure Controls and Personal Protection

**Components:** TLV-OEL-RL: 2 mg/m<sup>3</sup> (as A1 soluble salts) OHS Act 85 of 1993 (as amended)

**Personal protection:** As a minimum wear PVC/rubber gloves, apron and eye protection. Wear respirator if fume levels are above the OEL.

### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Opalescent, red-brown to off-white aqueous solution.
<b>Vapour pressure:</b>	<15.7 kPa at 55°C
<b>Relative density:</b>	1.33 g/cm <sup>3</sup> (at 20 °C)

### Section 10 – Stability and Reactivity

**Hazardous reaction and decomposition:** Corrosive to metals, incompatible with acids and bases.

**Hazardous decomposition products:** Sulphur dioxide, sulphur trioxide.

### Section 11 – Toxicology

**Eye contact:** Causes irritation. May be corrosive.

**Skin contact:** Causes irritation. May be corrosive.

**Ingestion:** Swallowing may cause gastrointestinal disturbance, rashes and mouth ulcers.

**Inhalation:** Fumes may cause irritation to the respiratory tract. May be corrosive to the mucous membranes.

**Long term exposure:** Unknown

### 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: Toxic to aquatic life.

### 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.

### Section 14 – Transport

	Land	Air	Sea
<b>UN:</b>	1760	1760	1760
<b>Proper shipping name:</b>	Aluminium Sulphate	Aluminium Sulphate	Aluminium Sulphate
<b>Transport hazard classes:</b>	8 (corrosive substances)	8 (corrosive substance)	8 (corrosive substance)
<b>Packing group:</b>	II	II	II
<b>Subsidiary risk:</b>	None	None	None
<b>ERG:</b>	154	154	154
<b>Marine pollutant:</b>	No	No	No
<b>UN-packing group:</b>	I, II, III	I, II, III	I, II, III
<b>Special precautions:</b>	274: supervision of vehicle over 1000 kg.	274: supervision of vehicle over 1000 kg.	274: supervision of vehicle over 1000 kg.



### Section 15 – Regulatory Information

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

CAS No. : 10043-01-3 (aluminium sulphate, solid)

### Section 16 – Other Information

#### **DISCLAIMER:**

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