

**MATERIAL SAFETY DATA SHEET  
ALUMINIUM HYDROXIDE**

**Section 1 – Identification of Supplier**

**Product name:** Aluminium Hydroxide.

**Common name:** Aluminium Hydroxide.

**Emergency Telephone Number:** (011) 608-3300 or **Toll free:** 0800-1144455

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

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

**Telephone number**

0800 1144 455

**Emergency number**

+27 11 608 3300

**Section 2 – Hazard Identification**

**Eyes:** Can cause mild irritation.

**Skin:** Can cause mild irritation.

**Inhalation:** Can cause mild upper respiratory tract irritation.

**Indigestion:** Can cause mild irritation.

**Chemical ingredient and possible procession hazards:** Aluminium tri-hydroxide: Low health risk by inhalation.

**Medical conditions aggravated by exposure to the product:** Asthma, chronic lung disease and skin rashes.

**Information pertaining to particular dangers for man and environment classification system:** The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

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

**Component**

Aluminium hydroxide

**Concentration**

CAS No.21645-51-2 – 99.5%.

Additional information: Loss on ignition – 34-35%.

## Section 4 – First Aid Measures

### **Specific Immediate Treatment**

**Inhalation:** Remove to fresh air and check for clear airway, breathing and presence of pulse. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.

**Skin contact:** Wash with soap and water for at least 15 minutes. Consult a physician.

**Eye contact:** Flush eyes with plenty water for at least 15 minutes. Consult a physician.

**Ingestion:** Do not induce vomiting Never give anything by mouth to a convulsing or unconscious person If swallowed, dilute by drinking large amounts of water Consult a physician.

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

## Section 5 – Fire Fighting Measures

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Protective equipment:** Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## Section 6 – Accidental Release Measures

**Personal protection:** Wear protective clothing.

**Environmental precaution:** No special measures required.

**Methods for cleaning up:** Clean up using dry procedures; avoid dusting.

## Section 7 – Handling and Storage

**Handling:** Avoid generating dust. Provide adequate ventilation if dust is formed.

**Storage:** Keep material dry.

## Section 8 – Exposure Controls and Personal Protection

**Additional information about design of technical systems:** No further data.

**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**General protective and hygienic measures:** Avoid contact with eyes. Do not inhale dust.

**Breathing equipment:** Use suitable respiratory protection in case of insufficient ventilation.

**Suitable respiratory protective device recommended:** Filter NIOSH N95.

**Protection of hands:** Wear appropriate gloves to avoid any skin injury.

**Penetration time of glove material:** Not applicable.

**Eye protection:** Safety glasses with full side shields or goggles recommended.

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Crystalline powder.
<b>Colour:</b>	White, off-white.
<b>Odour:</b>	Odourless.
<b>Melting point/melting range:</b>	Decompose before melting.
<b>Boiling point/boiling range:</b>	Not applicable.
<b>Flash point:</b>	Not applicable.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Density at 20 °C (68 °F):</b>	2.42 g/cm <sup>3</sup> .
<b>Bulk density at 20 °C (68 °F):</b>	0.15 -1.3 g/cm <sup>3</sup> , 9.4 – 80 lb/ft <sup>3</sup> .
<b>Solubility in/miscibility with water:</b>	Insoluble.

<b>Solvent content/organic content</b>	0.0 %
<b>Solids content</b>	100 %

### Section 10 – Stability and Reactivity

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Reactions:** Heating the material above 200 °C will result in a sudden release of water vapour (steam). Precautions must be taken to dissipate the vapour and any pressure that may be generated. A sudden increase in pressure could cause damage

**Dangerous products of decomposition:** Coated ATH: Carbon monoxide and carbon dioxide, formaldehyde.

**Additional information:** Non–corrosive.

### Section 11 – Toxicology

**Acute toxicity**

**Primary irritant effect:-**

**Eye contact:** Can cause mild irritation.

**Skin contact:** Can cause mild irritation.

**Ingestion:** Can cause mild irritation.

**Inhalation:** Can cause mild upper respiratory tract irritation.

### Section 12 – Ecological Information

**General notes:**

Not known to be hazardous to water.

### Section 13 – Disposal Considerations

**Product recommendation:** If reuse or recycling is not possible, material may be disposed of at an industrial landfill.

**Un-cleaned packaging recommendation:** Disposal must be made according to

local or governmental regulations.

### Section 14 – Transport

**IMDG class:** -

**Marine pollutant:** No

### Section 15 – Regulatory Information

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

### Section 16 – Other Information

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