

# Aquapac Pty Ltd

ABN 36 114 118 311

Water treatment & Specialty chemicals

## MATERIAL SAFETY DATA SHEET

### Product: Sodium Aluminate Solution

#### Company Details

**Supplier:** Aquapac Pty Ltd

**Telephone No.:** 02 9826 0201

**Address:** PO Box 1860  
Castle Hill NSW 1765

**Facsimile No.:** 02 9826 0208

**Email:** williamsay@optusnet.com.au

**Emergency Telephone No.:**

**Business Hours:** 02 9826 0201

**After Hours:** 000 Fire or Police

### IDENTIFICATION

**U.N. Number:** 1819 **Class:** 8 Corrosive

**Hazchem:** 2X **Poisons Schedule:** 6

**EPG:** 37 **Packaging Group:** III

Classified as hazardous according to criteria of NOHSC

**Hazard Category** C+ **Very Corrosive**

**Risk Phrases** R35 **Causes severe burns**

R41 **Risk of serious damage to eyes**

**Safety Phrases** S24/25 **Avoid contact with eyes and skin**

S36/37/39 **Wear suitable protective clothing, gloves and eye/face protection.**

#### Ingredients

Chemical Entity	CAS No.	Proportion
Sodium Aluminate	1302-42-7	29%
Sodium hydroxide	1310-73-2	8-12%
Water	7732-18-5	balance

#### Correct Shipping Name

Sodium Aluminate Solution

UN 1819

#### Other Names

Aluminium Sodium Oxide

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## Uses

Water treatment, effective precipitant for soluble phosphate in sewage, removal of fluorides from industrial waste waters, sizing paper, titanium dioxide paint pigments, processing of acrylic and polyester fibres, setting accelerator for cement, preparation of alumina based catalysts, detackification of paint particles in water, de-sulfurising flue gases, alkaline source of aluminium for the production of certain antacids, manufacturing milk glass and soap, hardening building stones, cleaning compounds.

## Physical Description / Properties

<b>Appearance:</b>	Clear to pale amber liquid	<b>Specific Gravity:</b>	1.415 approx
<b>Flash point:</b>	N/A	<b>ph (neat solution)</b>	> 12
<b>Boiling point (°C):</b>	130	<b>Solubility in Water (g/L):</b>	soluble
<b>Melting Point (°C):</b>	N/A		
<b>Vapour pressure:</b>	no data		

## Other Properties

<b>Odour:</b>	characteristic
<b>Solubility:</b>	Soluble in water

## HEALTH HAZARD INFORMATION

### Health Effects

No adverse health effects expected if the product is handled in accordance with this Material Safety Data Sheet. Symptoms that may arise if the product is mishandled are:

### Acute

<b>Swallowed</b>	Swallowing can result in nausea, vomiting, abdominal pain, diarrhoea and chemical burns.
<b>Eye</b>	A severe irritant. Corrosive to eyes. Can cause corneal burns.
<b>Skin</b>	Contact with skin may cause skin burns..
<b>Inhaled</b>	Not applicable.

***As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.***

### First Aid

<b>Swallowed</b>	Immediately rinse mouth thoroughly with water. Give large quantities of water to drink. Do NOT induce vomiting. If vomiting occurs place victim's head lower than hips to prevent vomit from entering lungs
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and give further water to achieve effective dilution. Seek immediate medical assistance.

**Eye** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Transport to medical centre. Continue washing during transport if possible. Seek immediate medical assistance.

**Skin** Immediately wash contaminated skin with plenty of water and then wash with soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness or blistering occurs seek medical advice.

**Inhalation** Remove victim from exposure - avoid becoming a casualty. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible. If breathing is difficult have a trained person administer oxygen. If respiration stops comma, give mouth to mouth resuscitation. Seek medical advice.

**Poison Information Centres** in each State capital city can provide additional assistance.

## Advice to Doctor

Treat symptomatically based on judgement of doctor and individual reactions of patient.

## PRECAUTIONS FOR USE

## Exposure Standards (for atmospheric contaminants in the occupational environment)

No value assigned for this product by the NOHSC (Workcover). However, the exposure standard for the acid constituent is:

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Sodium hydroxide		2		

8 hr atmospheric TLV = 2mg/m<sup>3</sup> – ceiling value for caustic soda (max instantaneous value).

Peak Limitation: A ceiling value that should not be exceeded over a measurement period that should be as short as possible but not exceed 15 minutes.

This exposure standard is a guide to be used in the control of occupational health

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hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

## Engineering Controls

Design and maintain pipework and storage systems to prevent leaks, and consider possible low temperature solidification effects. Maintain concentration below recommended exposure limit. Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator to comply with Australian Standards, ensuring correct fit to obtain adequate protection.

## Personal Protection

**Eyes:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

**Skin:** Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots

**Respiratory:** If mist is generated the use of approved AS 1715/1716 half facepiece respirator is recommended.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

## Flammability

Not combustible material.

## SAFE HANDLING INFORMATION

## Storage and Transport

Classified as a Dangerous Good for the purposes of transport.

Correct shipping name: Sodium Aluminate Solution

Packaging Group 111

UN Number 1819

Class 8 (Corrosive)

Refer to relevant regulations for storage and transport requirements.

Not to be loaded with:

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Class 1 explosives  
Class 4.3 dangerous when wet substances  
Class 5.1 Oxidising agents  
Food stuffs  
Incompatible Class 8 chemicals (Strong acids)

Store according to relevant Poisons Storage Act (Schedule Poison S6)

Group Text Emergency Procedure Guide (GTEPG) card from AS2931

GTEPG : 8A1

Dangerous Goods – Initial Emergency Response Guide (SSA/SNZ HB76:1997)

Do not store in materials of tin, aluminium, galvanised, zinc or alloys of these materials. Store away from acids and ammonium salts.

## Spills

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Contain do not allow spill material to enter the environment. Contain material using inert absorbent material eg vermiculite. Place into suitable labelled containers and hold for waste disposal. Wash area down with excess water once removed.

CAUTION: Sodium Aluminate may react violently with acids.

## Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority.

## Fire / Explosion Hazards

Not Combustible

Conditions to avoid:

Reaction with metals will produce flammable hydrogen gas.

Materials to avoid:

Acids. Water and ammonium salts

Hazardous Decomposition Products:

May produce hydrogen gas in contact with metal

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## Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water, foam, carbon dioxide, dry powder.

## OTHER INFORMATION

### Toxicity

#### Toxicology:

No data available.

### Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Aquapac Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

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