

Aquapac Pty Ltd

ABN 36 114 118 311

Water treatment & Specialty chemicals

MATERIAL SAFETY DATA SHEET

Product: AP-3 DE-SCALER

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 brigade or Police

IDENTIFICATION

U.N. Number: None allocated

Class: None allocated

Hazchem: None allocated

Poisons Schedule: None allocated

EPG: None allocated

Packaging Group: None allocated

Classified as hazardous according to criteria of NOHSC

Not classified as a Dangerous Good for the purpose of road and rail transport.

Ingredients

Chemical Entity	CAS No.	Proportion
Chloride content		10 - 15%
Organic salts	506-89-8	> 50%
Water	7732-18-5	balance

Other Names

N/A

Uses

Replacement for hydrochloric acid. Calcium deposit removal for pulp and paper industry, dairy industry and water treatment.

Physical Description / Properties

Appearance:	Clear to pale yellow solution.		
Viscosity:	16cps	Specific Gravity:	1.21
Boiling point (°C):	N/A	ph (5% solution)	< 1
Freezing point (°C):	-34 C	Solubility in Water (g/L):	soluble
Shelf life:	360 days		

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Other Properties

Odour: characteristic
Solubility: Soluble in water in water

HEALTH HAZARD INFORMATION

Health Effects

Symptoms that may arise if the product is mishandled are:

Acute

- Swallowed** Ingestion may result in nausea.
- Eye** Irritating to eyes.
- Skin** Irritating to skin.
- Inhaled** Should not occur. However if heated may release chlorine which may cause respiratory irritation.

Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

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

First Aid

- Swallowed** Rinse mouth thoroughly with water immediately. If swallowed promote vomiting by usual means. Seek immediate medical assistance.
- Eye** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. 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. Seek medical advice.
- Inhalation** Remove victim from exposure - avoid becoming a casualty. Seek medical advice.

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

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Advice to Doctor

Treat symptomatically.

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 ³	ppm	mg/m ³
Hydrochloric acid	5	7.5		

Engineering Controls

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 a chlorine vapour 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.

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SAFE HANDLING INFORMATION

Storage and Transport

Not classified as a Dangerous Good for the purposes of transport.

Use only plastic (PE, PP, PVC) or fibreglass containers/vessels. Other tanks should be lined with chloride resistant materials. Pumps should also be lined with chloride resistant materials.

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.

Disposal

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

Fire / Explosion Hazards

Conditions to avoid:

High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

Materials to avoid:

Strong alkalis.

Hazardous Decomposition Products:

May produce hydrogen chloride and /or corrosive gases

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.

Risk Statement:

R36/38 Irritating to eyes and skin.

Safety Statement:

R36/37/38 Irritating to eyes, respiratory system and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.

S28 After contact with skin wash with plenty of soap and water.

Hazard Category: X1 Harmful, Irritant

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OTHER INFORMATION

Toxicity

Toxicology:

Dermal Irritation / Corrosion Test:

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals, Sec. 404, Paris 1981 (revised 1992). This study complies with the requirements of OECD principles of GLP, Annex 2, Paris 1981, revised as of July 1992.

“AP-3” received a Primary Irritation Score of 2 +/- 0.9, and is classified as a “Mild Irritant”.

LD-50: 1121 mg/Kg (Rat, Oral)

Mutagenicity: This product was found NOT to be mutagenic when tested by the AMES Assay, (OECD Guideleines for Testing of Chemicals, Sec.471).

Biodegradation Test:

The COD is 3500 mg/L. This test method was Hach’s Reactor Digestion Method for Waste water and Sea Water. The Hach Reactor Digestion Method is a semi micro-adaption of the Standard Methods. (For comparisons, organic acids, surfactants, and glycol ethers will typically have COD’s in the range of 1,000,000 – 2,000,000 mg/L). The BOD is 500mg/L after 5 days and 600mg/L at 10 days. The test method used was part 507 Oxygen Demand (Biochemical) of the Standards Methods for Examination of Water and Waste water, 1985, 16th Ed.

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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