

# Aquapac Pty Ltd

ABN 36 114 118 311

Water Treatment & Specialty chemicals

## MATERIAL SAFETY DATA SHEET

**Product: Phosphoric acid 40-85%**

### Company Details

**Supplier:** Aquapac Pty Ltd  
**Address:** PO Box 1860  
Castle Hill NSW 1765  
**Telephone No.:** 02 9826 0201  
**Facsimile No.:** 02 9826 0208  
**Email:** williamsay@optusnet.com.au

### Emergency Telephone No.:

**Business Hours:** 02 9826 0208  
**After Hours:** 000 Fire brigade or Police

### IDENTIFICATION

**U.N. Number:** 1805  
**Hazchem:** 2R  
**EPG:** 8A1  
**Class:** 8  
**Poisons Schedule:** 6  
**Packaging Group:** III

Classified as hazardous according to criteria of NOHSC

### Ingredients

Chemical Entity	CAS No.	Proportion
Phosphoric acid	7664-38-2	40 - 85%
Water	7732-18-5	balance%

### Other Names

Ortho Phosphoric acid

### Uses

Fertilizers, soaps and detergents, pickling and rust-proofing metals, water treatment, electroplating, as an acidulant and sequestrant

### Physical Description / Properties

<b>Appearance:</b>	Clear solution.		
<b>Flash point:</b>	N/A	<b>Specific Gravity:</b>	1.68 @ 85%
<b>Boiling point (°C):</b>	158 C	<b>ph (5% solution)</b>	< 1
<b>Melting Point (°C):</b>	23 c	<b>Solubility in Water (g/L):</b>	soluble
<b>Vapour pressure:</b>	N/A		

### Other Properties

Doc Title:	MSDS Phosphoric acid	Doc ID:	QA1
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**Odour:** characteristic odour  
**Solubility:** Soluble in water

## HEALTH HAZARD INFORMATION

### Health Effects

Symptoms that may arise if the product is mishandled are:

#### Acute

**Swallowed** Causes burns to the mouth, throat and stomach. Can cause nausea, difficulty in breathing, shock, acidosis, convulsions and collapse.

**Eye** causes irritation or burns. No permanent damage if treated immediately..

**Skin** causes irritation or burns, dryness or cracking. Dermatitis may occur from prolonged exposure

**Inhaled** Respiratory irritant causing chemical burns.

#### 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. Give 1 – 3 cups of milk or water to drink. Seek medical attention immediately. Do NOT induce vomiting.

**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 with copious amounts of water for at least 15 minutes. 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Phosphoric acid	1	1		3

## 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 air fed 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

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## Storage and Transport

Classified as a Dangerous Good for the purposes of transport.

Use only plastic (PE, PP, PVC) or fibreglass containers/vessels – corrosive to mild and stainless steels. 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.

Do not allow spill material to enter the environment. Neutralise spill then 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:

Reaction with metals: Toxic fumes of hydrogen chloride may be released if reaction with metal occurs. Fire fighters are to wear self contained breathing apparatus and full protective clothing.

Materials to avoid:

Strong alkalis. metals

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.

## OTHER INFORMATION

## Toxicity

Toxicology:

Strong mineral acid. Corrosive to all tissue. Oral LD50 (Rat 1530 mg/kg)

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## Risk Statement:

R34 Causes burns

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

R41 Risk of serious damage to eyes.

## Safety Statement:

S7/9 Keep container tightly closed and in a well ventilated place.

S36 Wear suitable protective clothing

S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

## Hazard Category: X1

Harmful, Irritant

## 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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