

Active Chemicals Pty Ltd

ABN 16 117 075 180
Professional Cleaning chemicals

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Phosphoric acid 40-85%

Other Names

Ortho Phosphoric acid

Uses

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

Company Details

Supplier:	Active Chemicals Australia	Telephone No.:	(02) 9826 0201
Address:	4/20 Powdrill Road Prestons NSW 2170	Facsimile No.:	(02) 9826 0208
		Email:	williamsay@optusnet.com.au

Emergency Telephone No.:

Business Hours: 9826 0201

After Hours: Police or Fire 000

Poisons Information Centre: 131126

2. HAZARD IDENTIFICATION

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

Classified as hazardous according to criteria of NOHSC

Classified as a Dangerous Good for the purposes of transport.

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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

3.COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

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

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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.

Poison Information Centres in each State capital city can provide additional assistance. **131126**

Advice to Doctor

Treat symptomatically

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5. Fire Fighting Measures

Not combustible material

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.

6. Accidental Release Measures

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

7. Handling and Storage

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.

**** KEEP CONTAINERS WELL SEALED ****

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

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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.

PRECAUTIONS FOR USE

8. Exposure Controls / Personal Protection

(**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
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.

Flammability

Not combustible material.

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9. Physical Description / Properties

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

Other Properties

Odour:	characteristic odour
Solubility:	Soluble in water

10. Stability and Reactivity

Chemical Stability:

Product is stable under normal conditions of use, storage and temperature.

**** KEEP CONTAINERS WELL SEALED ****

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

11. Toxicological Information

Toxicology:

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

12. Ecological Information

Ecotoxicity

No data available.

Mobility No information available on mobility for this product. Completely Miscible with water.

Doc Title: MSDS PHOS ACID
Version: 2.7 CURRENT
Authorised by: WS

Doc ID: QA1
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Environmental Fate (Exposure) Do NOT allow product to enter waterways, drains or sewers.

13. Disposal Considerations

Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulation or recycled/reconditioned at an approved facility.

14. Transport Information

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15. Regulatory Information

Poisons Schedule 6

EPG 8A1

AICS Name No data available.

16. Other Information

Legend to Abbreviations and Acronyms

< less than > greater than

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstracts Service (Registry Number)

CO2 Carbon Dioxide

Doc Title: MSDS PHOS ACID
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COD Chemical Oxygen Demand

Deg C degrees Celsius

ERMA Environmental Risk Management Authority

g gram **g/cm³** grams per cubic centimetre **g/L** grams per litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

Immiscible liquids are insoluble in each other

Kg kilogram **Kg/m³** kilograms per cubic metre

LC 50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals

Ltr Litre **m³** cubic metre **mbar** millibar **mg** milligram **mg/24H** milligrams per 24 hours

Mg/Kg milligrams per kilogram **mg/m³** milligrams per cubic metre

Misc miscible

miscible liquids form one homogeneous liquid phase regardless of the amount of either component present

mm millimetre **mPa.s** milli Pascal per second

N/A Not Applicable

NOHSC National Occupational Health and Safety Commission

OECD Organization for Economic Co-operation and Development

PEL Permissible Exposure Limit

Ppb parts per billion **ppm** parts per million

Ppm/2h parts per million per 2 hours **ppm/6h** parts per million per 6 hours

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

Tne tonne

TWA time Weighted Average

Ug/24H micrograms per 24 hours

UN United Nations (number)

W weight

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

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which this information may be used, each user should review the information in the specific context of the intended application.

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