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# Phosphoric Acid

## 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

<b>Product Name</b>	Phosphoric Acid
<b>Code</b>	40149, C26850, C26935
<b>Product Use</b>	To neutralise alkaline residues in wine tanks
<b>Company Name</b>	Dominant (Australia) Pty Ltd
<b>Address</b>	12 Coglin Street, Brompton SA 5007, Australia
<b>Telephone</b>	1300 789 852 or +61 (8) 8245 6900
<b>Facsimile</b>	+ 61 (8) 8340 1626
<b>Emergency Phone</b>	13 11 26

## 2. HAZARDS IDENTIFICATION

<b>GHS Classification</b>	<b>Eye Damage 1</b> <b>Skin Corrosion 1B</b> <b>Metal Corrosion 1</b> <b>Acute Toxicity (Oral) 4</b>
<b>Signal Word</b>	<b>DANGER</b>
<b>Hazard Statements</b>	<b>Causes severe skin burns and eye damage</b> <b>May be corrosive to metals</b> <b>Harmful if swallowed</b>
<b>Precautionary Statements</b>	Keep out of reach of children. Do not breathe mists / spray. Wash skin thoroughly after handling Wear protective gloves/ protective clothing/ eye protection/face protection. Store locked up. Keep only in original container. Absorb spillage to prevent material damage. Do not eat, drink or smoke when using this product.  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

### Pictograms



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**Product Name: Phosphoric Acid****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	Name	CAS	Proportion
	Phosphoric acid	7664-38-2	85%
	Water	7732-18-5	15%

**4. FIRST AID MEASURES**

<b>Ingestion</b>	If swallowed do NOT induce vomiting. Immediately wash out mouth with water. Seek medical attention immediately.
<b>Eye</b>	If in eyes, hold eye lids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek urgent medical attention.
<b>Skin</b>	If skin contact occurs, Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention if skin irritation develops
<b>Inhaled</b>	Not normally a problem due to method of use. However, if breathing is affected move victim to fresh air. Seek urgent medical attention.
<b>First Aid Facilities</b>	An eye wash and general washing facility should be available to the work area.
<b>Advice to Doctor</b>	Treat symptomatically. For advice contact a Poisons Information Centre. (Phone Australia 13 11 26; New Zealand 0800 764 766)

**5. FIRE FIGHTING MEASURES**

<b>Extinguishing Media</b>	Use appropriate extinguishing media to suit surrounding area. Do not use a direct water stream.
<b>Hazards from Combustion</b>	Material does not burn. If involved in fire hazardous decomposition products include toxic gases and vapours.
<b>Precautions for Fire Fighters</b>	Wear chemical splash suit and SCBA. Keep containers cool by spraying with water. Contact with metals may evolve flammable hydrogen gas.
<b>Hazchem</b>	2R

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**Product Name: Phosphoric Acid****6. ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Keep unauthorized people away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>Clean Up</b>	For minor spills mop up and rinse with water. For larger spills absorb material on mineral absorbent material or absorbent pads to prevent material damage. Neutralize with soda ash or lime. Collect and put into plastic bags or containers and dispose of through waste disposal contractor. Rinse area with water.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Wear appropriate protective clothing to prevent skin and eye contact. Use in well ventilated area. Keep containers closed when not in use. Maintain a high standard of personal hygiene. Wash hands immediately after using product.
<b>Storage</b>	Corrosive product. Store in a cool, dry, well ventilated place out of direct sunlight. Keep only in original containers. Store in closed containers. Store away from incompatible materials such as caustic compounds, chlorine bleaches, aluminium or zinc. Store locked up.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Standards</b>	Exposure standard for phosphoric acid: TWA 1 mg/m <sup>3</sup> STEL 3 mg/m <sup>3</sup>
<b>Engineering Controls</b>	Ensure ventilation is adequate to maintain air concentrations below exposure standards. Use product in tanks or CIP systems. Do not use through high pressure spray units.
<b>Personal Protective Equipment</b>	Wear overalls, chemical goggles or face mask, safety shoes or boots and impervious gloves. If mist or vapour exists wear respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716

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**Product Name: Phosphoric Acid****9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear colourless viscous liquid
<b>Solubility in Water</b>	Soluble
<b>pH</b>	~1.5
<b>Flash Point</b>	Not applicable
<b>Melting Point</b>	21°C
<b>Boiling Point</b>	135 - 158°C
<b>Specific Gravity</b>	1.69

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable product. Corrosive liquid. Hygroscopic: absorbs moisture or water from the air.
<b>Hazardous Polymerisation</b>	Will not occur
<b>Conditions to Avoid</b>	Do not mix with caustic compounds or chlorine bleaches. Avoid excessive heat, direct sunlight, moist air or water.
<b>Incompatible Materials</b>	Reacts violently with caustic and evolves chlorine gas if mixed with chlorine bleach. Attacks aluminium, tin, zinc and concrete. Contact with metals may evolve highly flammable hydrogen gas.

**11. TOXICOLOGICAL INFORMATION**

<b>Ingestion</b>	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastrointestinal tract.
<b>Eye</b>	Corrosive to eyes. Will cause severe irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness if not treated promptly and thoroughly.
<b>Skin</b>	Corrosive to skin – may cause skin burns. Contact with skin will result in severe irritation.
<b>Inhalation</b>	Vapours and mists cause severe irritation to the mucous membranes and upper respiratory tract.
<b>Chronic Effects</b>	Prolonged or repeated exposure to this product will result in skin irritation and possibly result in dermatitis.
<b>Toxicological Data</b>	For phosphoric acid Oral LD L50 : 1530 mg/kg (rat) Skin 595mg/24H: Severe (rabbit) Eye 119 mg: Severe (rabbit) (Reference: Dangerous Properties of Industrial Materials 7th Edition)

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**Product Name: Phosphoric Acid****12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Ecotoxicity value :For phosphoric acid  
TLm mosquito fish 138mg/L/24-96 hr in turbid water at 22 – 24 °C.  
Avoid contaminating waterways.

**13. DISPOSAL CONSIDERATIONS**

Refer to Waste Management Authority. Dispose of material through licensed waste contractor. Assure conformity with all applicable regulations.

**14. TRANSPORT INFORMATION**

**UN No.** 1805  
**Proper Shipping Name** PHOSPHORIC ACID  
**Hazchem Code** 2R  
**Class** 8 Corrosive  
**Packing Group** III

**15. REGULATORY INFORMATION**

**Classification** Poisons Schedule: Schedule 6 according to the Poisons Standard October 2016  
**Approvals** Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**16. OTHER INFORMATION**

**Contact Point** Dominant Australia. Phone 08 8245 6900  
24 hour medical emergency 13 11 26  
**Date of preparation** 2<sup>nd</sup> March 2017  
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