

Infosafe No™ VAREY                      Issue Date : May 2021                      ISSUED by HUNTERST

Product Name **PHOSPHORIC ACID**

## 1. Identification

**GHS Product Identifier** PHOSPHORIC ACID

**Company Name** Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)

**Address** 60 Gleadow Street INVERMAY  
TAS 7248 AUSTRALIA

**Telephone/Fax Number** Tel: 03 6331 4755  
Fax: 03 6334 1065

**Emergency phone number** 0407 610 542

**Recommended use of the chemical and restrictions on use** Acidic chemical intermediate. Descaling agent.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Skin Corrosion/Irritation: Category 1B

**Signal Word (s)** DANGER

**Hazard Statement (s)** H314 Causes severe skin burns and eye damage.

**Precautionary statement – General** P102 Keep out of reach of children.  
P103 Read label before use.

**Pictogram (s)** Corrosion



**Precautionary statement – Prevention** P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response** P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.

**Precautionary statement – Storage** P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container in accordance with local regulations.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Phosphoric acid	7664-38-2	75-93 %
	Water	7732-18-5	to 100%

## 4. First-aid measures

**Inhalation** Remove victim from exposure. Allow patient to assume most comfortable position, keep warm and at rest until fully recovered.

**Ingestion** Rinse mouth with water. Do NOT induce vomiting. Give water to drink to be taken slowly. Seek immediate medical advice.

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**Skin**                      Remove heavily contaminated clothing. Wash affected area with copious quantities of water for at least 15 minutes. If irritation develops or persists seek medical advice.

**Eye contact**                      Immediately irrigate with copious quantities of water for at least 15 minutes. Hold eyelids open. Seek medical attention.

**First Aid Facilities**                      Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor**                      Treat symptomatically for acids.

## 5. Fire-fighting measures

**Suitable extinguishing media**                      Use extinguishing media appropriate to surrounding fire. Use water spray to cool containers and surrounds.

**Hazards from Combustion Products**                      If involved in a fire may generate noxious and corrosive fumes.

**Specific Methods**                      Fire-fighters to wear self contained breathing apparatus and protective equipment. If safe to do so remove containers from path of fire.

**Specific hazards arising from the chemical**                      Not flammable or combustible. However, flammable and explosive hydrogen gas may be formed on contact with metals.

**Hazchem Code**                      2R

## 6. Accidental release measures

**Emergency Procedures**                      Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Wear appropriate eye, skin and respiratory protection as outlined in this MSDS.

**Spills & Disposal**                      SMALL SPILLS:  
Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.  
LARGE SPILLS:  
Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

## 7. Handling and storage

**Conditions for safe storage, including any incompatibilities**                      Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, alkalis, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Phosphoric acid	3		1		

**Other Exposure Information**                      No value assigned by the National Occupational Health and Safety Commission (Worksafe Australia). However, exposure standards for constituents:  
Phosphoric acid:    TWA: 1 ppm ( 3 mg/m3): STEL: No value.

**Appropriate engineering controls**                      Corrosive liquid. Single significant exposure may cause severe injury. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Engineering methods to prevent or control exposure are

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preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.

**Personal Protective Equipment** Avoid contact with the skin and eyes. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

- Safety glasses
- Gloves, rubber or plastic
- Respirators in accordance with AS/NZS 1715/1716.

Always maintain a high level of personal hygiene when using this product. That is wash hands before eating, drinking, smoking or using the toilet.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Colourless liquid
<b>Odour</b>	No odour
<b>Boiling Point</b>	>100C
<b>Solubility in Water</b>	Soluble at all dilutions.
<b>Specific Gravity</b>	1.57 - 1.79
<b>pH</b>	<1
<b>Flash Point</b>	None
<b>Flammability</b>	Non flammable.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Heat and incompatibles.
<b>Incompatible Materials</b>	Strong bases, aluminium, zinc, magnesium and oxidizing agents.
<b>Hazardous Decomposition Products</b>	Emits choking and corrosive fumes when heated to decomposition.
<b>Possibility of hazardous reactions</b>	Contact with metals may produce hydrogen gas which is flammable. If splashing occurs rinse with water and wipe clean. Do not mix with bleaches, acids, or other cleaning solutions.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 Phosphoric acid: 1530 mg/kg oral, rat
<b>Acute Toxicity - Inhalation</b>	Human TCLo: 100 mg/m3
<b>Ingestion</b>	Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.
<b>Inhalation</b>	Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.
<b>Skin</b>	Will cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.
<b>Eye</b>	Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.
<b>Chronic Effects</b>	Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

## 12. Ecological information

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**Ecotoxicity** Will consume organic matter and is poisonous in aquatic environments in large concentrations.  
**Mobility** Readily dilutes with water.  
**Information on Ecological Effects** This substance may cause long term adverse effects in the aquatic environment.  
**Environmental Protection** Avoid contaminating waterways, drains, sewers, or ground.

### 13. Disposal considerations

**Waste Disposal** Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.

### 14. Transport information

**Transport Information** Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7.  
**U.N. Number** 1805  
**UN proper shipping name** PHOSPHORIC ACID  
**Transport hazard class(es)** 8  
**Hazchem Code** 2R  
**Packing Group** III  
**EPG Number** 8A1  
**IERG Number** 37

### 15. Regulatory information

**Poisons Schedule** S5  
**AICS (Australia)** All components listed.

### 16. Other Information

**Date of preparation or last revision of SDS** 20/05/2021  
**Literature References** Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons  
Australian Code for the Transport of Dangerous Goods by Road & Rail  
Globally Harmonised System of classification and labelling of chemicals  
**Signature of Preparer/Data Service** Technical Manager 0407 610 542  
**Technical Contact Numbers** Emergency Advice All Hours:  
Technical Manager: 0407 610 542 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs  
Transport/Fire Emergency: 000 (Emergency services)  
**Other Information** This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.  
...End Of MSDS...

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