

Infosafe No™ VAREY	Issue Date : October 2024	ISSUED by HUNTERST
Product Name PHOSPHORIC ACID		

Section 1 - Identification

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	0417 744 144
Recommended use of the chemical and restrictions on use	Acidic chemical intermediate. Descaling agent.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Skin corrosion/irritation: Category 1B
Signal Word	DANGER
Hazard Statement (s)	H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P280(f) 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): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor. P363 Wash contaminated clothing before reuse. P405 Store locked up.
Precautionary Statement – Storage	
Precautionary Statement – Disposal	P501 Dispose of contents/container in accordance with local regulations.
Precautionary Statement – General	P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

Section 3 - Composition and Information on Ingredients

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

Section 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 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.

Section 5 - Firefighting 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

Section 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.

Section 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.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) 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.					
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					

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particular worksite depend on how the material is used and on the potential for exposure. Engineering methods to prevent or control exposure are 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.

Section 9 - Physical and Chemical Properties

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

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal use conditons.
Possibility of Hazardous Reactions	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.
Conditions to Avoid	Heat and incompatibles.
Incompatible Materials	Strong bases, aluminium, zinc, magnesium and oxidizing agents.
Hazardous Decomposition Products	Emits choking and corrosive fumes when heated to decomposition.

Section 11 - Toxicological Information

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

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Section 12 - Ecological Information

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.

Section 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.

Section 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.

ADG UN Number 1805

ADG Proper Shipping Name PHOSPHORIC ACID

ADG Transport Hazard Class 8

ADG Packing Group III

Hazchem Code 2R

EPG Number 8A1

IERG Number 37

Section 15 - Regulatory Information

Poisons Schedule S5

Australia (AICS/AIIC) All components listed.

Section 16 - Any Other Relevant Information

Date of Preparation 30/10/2024

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 GHS7

Signature of Preparer/Data Service Technical Manager 0417 744 144

Technical Contact Numbers Emergency Advice All Hours:
Technical Manager: 0417 744 144 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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