



KegLand Distribution PTY LTD

410 Princes Highway,

Noble Park North

VIC 3174

Revised 15<sup>th</sup> February 2023

# SAFETY DATA SHEET

## Phosphoric Acid 85%

KegLand Distribution PTY LTD

410 Princes Highway,

Noble Park North VIC 3174

## 1. PRODUCT NAME Phosphoric Acid 85%

### IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** KegLand Distribution PTY LTD

**Address** 410 Princes Highway, Noble Park, VIC, 3174

**Telephone** +61390187935

**OTHER NAMES:** Orthophosphoric Acid

## 2. HAZARDS IDENTIFICATION

**HAZARD CLASSIFICATION:** DANGER  
Classified as **hazardous** according to the criteria of NOHSC.  
Classified as a dangerous good UN 1805 according to the criteria of ADG Code (see section 14).  
Classified as **schedule 6 Poison (When Undiluted)** according to the criteria of SUSMP (see section 15).

**HAZARD CATEGORY:** H290 – May be corrosive to metals  
H314 – Causes severe skin burns and eye damage

**PRECAUTIONARY STATEMENT - PREVENTION:** P234 – Keep only in original container  
P251 – Avoid breathing dust/fume/gas/mist/vapours/spray  
P280 – Wear protective gloves/protective clothing/eye protection and 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 so. Continue Rinsing  
P310: Immediately call a POISON CENTER or doctor/physician  
P363: Wash contaminated clothing before reuse

**PRECAUTIONARY STATEMENT - STORAGE** P405: Store locked up  
P406: Store in corrosive resistant container with a resistant inner liner.

*The information contained in this MSDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as the neat product. Check with your technical representative if in doubt.*



### 3. COMPOSITION – HAZARDOUS INGREDIENTS

Phosphoric Acid (96%)	CAS 7664-38-2	85% (V/V%)
Water	CAS 7732-18-15	15% (V/V%)

### 4. FIRST AID MEASURES

	For advice, contact a Poisons Information Centre (Phone Australia 13 11 26, New Zealand 0800 764 766) or a doctor 0800 764 766) or a doctor.
<b>INGESTION:</b>	If swallowed, do NOT induce vomiting. Wash out mouth with water, afterwards drink plenty of water. Seek immediate medical attention.
<b>EYE CONTACT:</b>	If in eyes, hold eyelids 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.
<b>SKIN CONTACT:</b>	If skin or hair contact occurs, remove contaminated clothing and wash before re-use. Flush skin and hair with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor.
<b>INHALATION:</b>	Remove from source of exposure to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately seek medical assistance if cough or other systems appear <b>** SHOW THIS SAFETY DATA SHEET TO A DOCTOR **</b>
<b>FIRST AID FACILITIES:</b>	Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.
<b>NOTES TO PHYSICIAN:</b>	Treat symptomatically as for strong acids. Consult POISONS INFORMATION CENTRE

### 5. FIRE FIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA:</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO2 or water spray. Large fire: Use water spray, fog or foam – do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool container with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.
<b>HAZARDS FROM COMBUSTION:</b>	The product is non-combustible. Fire or heat with produce irritating, poisonous and/or corrosive gases. Containers may explode when heated.
<b>PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT:</b>	Wear SCBA and chemical splash suit. Fully encapsulating, gas tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.
<b>HAZCHEM CODE:</b>	2R



## 6. ACCIDENTAL RELEASE MEASURES

### EMERGENCY PROCEDURES:

Ensure adequate ventilation, work up wind or increase ventilation. Keep spectators away – rope off the area. Avoid accidents, clean up immediately. Keep away from ignition sources. Wear protective equipment to prevent skin and eye contamination and use respiratory protective device to protect against the effects of fumes/aerosol.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:

Contain the spill and prevent run off into confined areas, drains and waterways.

Absorb with dry earth, sand or other non-combustible inert absorbent material. Use clean non-sparking tools to collect and seal in properly labelled drums for disposal in an area approved by local authority by-laws. Put leaking containers in a labelled drum or overdrum.

Incineration of disposed material is not recommended, as it is unlikely to adequately burn.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright.

Addition to water releases heat which can result in violent boiling and splattering. Always add slowly and in small amounts. Never add water to acids always add acids to water. Avoid eye contact and repeated or prolonged skin contact and breathing in mists. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

### CONDITIONS FOR SAFE STORAGE:

Store in the original container, in a cool dry well-ventilated area out of sunlight and away from heat, incompatible materials and foodstuffs.

Keep containers closed when not in use to ensure contamination does not occur- check regularly for leaks. Do not combine part drums of the same product, as this may be a source of contamination. Do not mix with other chemicals. This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

### CORROSIVENESS

Extremely corrosive in presence of copper, brass and stainless steel. Highly corrosive in presence of aluminium. Mild corrosive effect on bronze. Corrosive to ferrous metals and alloys. Non-corrosive in presence of glass.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### NATIONAL EXPOSURE STANDARDS:

No value assigned for this specific material by NOHSC, however as published by NOHSC:

T.W.A. for Phosphoric Acid = 1 mg/m<sup>3</sup> S.T.E.L. for Phosphoric Acid = 3 mg/m<sup>3</sup>

### OTHER EXPOSURE INFORMATION

A time weighted average (TWA) has been established for phosphoric acid (Safe Work Australia) of 1 mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded from more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne



<b>ENGINEERING CONTROLS:</b>	concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards.
<b>RESPIRATORY PROTECTION:</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mist. Respiratory protection should comply with AS 1716 and be selected in accordance to AS 1715. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full facepiece SCBA should be used.
<b>EYE PROTECTION:</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with AS 1337 and be selected and used in accordance with AS 1336.
<b>HAND PROTECTION:</b>	Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous water. Hand protection should comply with AS 2161. Recommendation: rubber or plastic gloves.
<b>PERSONAL PROTECTIVE EQUIPMENT FOOTWEAR:</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Safety boots in industrial situations is advisory, foot protection should comply with AS 2210.
<b>BODY PROTECTION:</b>	Clean clothing and protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765.
<b>HYGEINE MEASURES:</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear, colourless, syrupy liquid
<b>ODOUR:</b>	Odourless.
<b>PH (NEAT):</b>	< 1
<b>SPECIFIC GRAVITY OR DENSITY:</b>	S.G. 1.685
<b>VAPOUR PRESSURE:</b>	2.2 hPa
<b>BOILING POINT / RANGE:</b>	158°C
<b>FREEZING / MELTING POINT:</b>	21°C
<b>SOLUBILITY:</b>	Soluble in water
<b>FLASH POINT:</b>	No known fire hazard.
<b>FLAMMABILITY LIMITS:</b>	No information available.
<b>IGNITION TEMPERATURE:</b>	No information available.
<b>SHELF LIFE:</b>	2 years from manufacturing date (when stored as directed).
<b>OTHER:</b>	None.

## 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under normal conditions of use.
<b>CONDITIONS TO AVOID:</b>	Incompatibles.
<b>INCOMPATIBLE MATERIALS:</b>	Acetulides, alcohols, aldehydes, amides, amines, ammonia or bleach, azo-compounds, carbides, carbamates, caustics, chlorides, combustible materials, cyanides, esters, epoxides, fluorides, glycols, halogenated organics, ketones, mercaptins, nitromethanes, organic peroxides, organophosphates, phenols and cresols, phosphides, silicides, sodium tetrahydroborate, strong caustics, stainless steel, sulfides and unsaturated halides.



**HAZARDOUS REACTIONS:**

Decomposes under formation of toxic fumes on contact with alcohols, cyanides, ketones, phenols, esters, sulfides, mercaptins and halogenated organic compounds. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel. Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, organophosphates, epoxides, combustible materials, unsaturated halides, sodium tetrahydroborate, organic peroxides.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE EFFECTS**

**ACUTE TOXICITY – ORAL**

LD50 (rat): 1,530 mg/kg (anhydrous) (IUCLID)

**ACUTE TOXICITY – DERMAL**

LD50 (rabbit): 2740 mg/kg (anhydrous) (IUCLID)

**INGESTION:**

Harmful if swallowed and absorbed through membranes. Burns to the mouth, throat and stomach. Symptoms include sour acrid taste, coughing, difficult breathing and swallowing, conjunctivitis, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhoea, severe abdominal pains, extreme thirst and convulsions.

**EYE CONTACT:**

Harmful if in contact with eyes. Mists may cause eye irritation. Symptoms include redness, pain, tearing, eyelid spasms, blurred vision, chemical conjunctivitis, burns and permanent eye damage, risk of blindness.

**SKIN CONTACT:**

Harmful if absorbed through skin. Corrosive. Concentrated acid solutions can cause redness, pain, itching, scaling, occasional blistering and severe skin burns.

**CARCINOGENICTY  
CHRONIC EFFECTS**

No evidence of carcinogenic properties  
Dermatitis may occur from prolonged or repeated skin contact. Prolonged or over exposure to phosphoric acid can increase fluid levels in the lungs (pulmonary oedema). May cause clammy skin and dermatitis, weak and rapid pulse, shallow respiration, very little urine, bronchitis, shortness of breath. Severe exposure to phosphoric acid can lead to shock, circulatory collapse and death.

**MUTAGENICITY**

No evidence of mutagenic effects

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:**

Avoid contaminating waterways. The product is highly acidic. If large spills occurred a water pH drop could be responsible for an environmental effect on aquatic organisms. Low concentrations of phosphate may act as a plant nutrient or precipitate heavy metals.

**PERSISTENCE AND  
DEGRADABILITY:**

This product is considered to be inherently biodegradable to AS4351.

**MOBILITY:**

No information available.

**OTHER:**

None.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:**

Empty containers should be forwarded to an approved agent for recycling. Dispose container as a hazardous waste. Avoid unauthorised discharge to sewer.



## 14. TRANSPORT INFORMATION

<b>ROAD AND RAIL TRANSPORT:</b>	Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail. Dangerous goods of class 8 (Corrosive) 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, Class 7; and are incompatible with food and food packaging in any quantity.
<b>UN NUMBER:</b>	1805
<b>UN PROPER SHIPPING NAME:</b>	PHOSPHORIC ACID
<b>CLASS AND SUBSIDIARY RISK(S):</b>	8
<b>PACKAGING GROUP:</b>	III
<b>HAZCHEM CODE:</b>	2R
<b>INITIAL EMERGENCY RESPONSE GUIDE:</b>	Guide 37
<b>SEGREGATION DANGEROUS GOODS:</b>	Not to be loaded with 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, Class 7; and are incompatible with food and food packaging in any quantity.
<b>MARINE TRANSPORT:</b>	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
<b>UN NUMBER:</b>	1805
<b>UN PROPER SHIPPING NAME:</b>	PHOSPHORIC ACID
<b>CLASS AND SUBSIDIARY RISK(S):</b>	8
<b>PACKAGING GROUP:</b>	III
<b>STOWAGE AND SEGREGATION:</b>	Category A. Clear of living quarters.
<b>AIR TRANSPORT:</b>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by air.
<b>UN NUMBER:</b>	1805
<b>UN PROPER SHIPPING NAME:</b>	PHOSPHORIC ACID
<b>CLASS AND SUBSIDIARY RISK(S):</b>	8
<b>PACKAGING GROUP:</b>	III
<b>ERG CODE:</b>	37

## 15. REGULATORY INFORMATION

<b>POISONS SCHEDULE (AUST.):</b>	S6
<b>APVMA STATUS:</b>	Not relevant.
<b>TGA STATUS:</b>	Not relevant.
<b>AICS STATUS:</b>	All the constituents of this product are listed.
<b>AQIS STATUS:</b>	IOA is available on request.
<b>NEW ZEALAND:</b>	HSR002526; Hazard Classifications: 6.1D, 8.1A, 8.2C, 8.3A, 9.1D, 9.3C; Group Standard Name: Cleaning Products (Corrosive) Group Standard 2006