

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** **POWERPZ FERTILISER**  
**Synonym(s)** POWERPZ LIQUID FERTILISER

### 1.2 Uses and uses advised against

**Use(s)** LIQUID FERTILISER

### 1.3 Details of the supplier of the product

**Supplier name** **RURAL LIQUID FERTILISERS PTY LTD**  
**Address** 1/61 Dowd Street, Welshpool, WA, 6106, AUSTRALIA  
**Telephone** (08) 9334 8700; 1800 753 000  
**Fax** (08) 9334 8711  
**Email** [info@rlf.com.au](mailto:info@rlf.com.au)  
**Website** <http://www.ruralliquidfertilisers.com>

### 1.4 Emergency telephone number(s)

**Emergency** Poisons Information Centre: 13 11 26

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

**GHS classification(s)** Skin Corrosion/Irritation : Category 2  
 Serious Eye Damage / Eye Irritation : Category 2A

### 2.2 Label elements

**Signal word** **WARNING**

**Pictogram(s)**



**Hazard statement(s)**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

**Prevention statement(s)**

P264 Wash thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 Specific treatment is advised - see first aid instructions.  
 P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before re-use.

**Storage statement(s)**

None allocated.

**Disposal statement(s)**

None allocated.

### 2.3 Other Hazards

No information provided.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
PHOSPHORIC ACID	7664-38-2	231-633-2	<25%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>First aid facilities</b>	Eye wash facilities should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

Irritating to the eyes and skin.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>5.1 Extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	Non flammable. May evolve toxic gases (phosphorus oxides) when heated to decomposition. Contact with most metals may evolve flammable hydrogen gas.
<b>5.3 Advice for firefighters</b>	Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>5.4 Hazchem code</b>	None allocated.

### 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.
<b>6.2 Environmental precautions</b>	Prevent product from entering drains and waterways.
<b>6.3 Methods of cleaning up</b>	Contain spillage, then cover / absorb spill with sodium bicarbonate or 50-50 mixture of sodium carbonate and calcium hydroxide. Collect for complete neutralisation and appropriate disposal.
<b>6.4 Reference to other sections</b>	See Sections 8 and 13 for exposure controls and disposal.



## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Phosphoric acid	SWA (AUS)	--	1	--	3

#### Biological Limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

#### Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### PPE

##### Eye / Face

Wear splash-proof goggles.

##### Hands

Wear PVC or rubber gloves.

##### Body

Wear coveralls.

##### Respiratory

Where an inhalation risk exists, wear a Type B (Inorganic gases and vapours) respirator. If spraying, with prolonged use, or if in confined areas, wear an Air-line respirator



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	CLEAR, PINK LIQUID
Odour	MILD PHOSPHATE ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	1.9 to 2.5 (1% solution)
Vapour density	NOT AVAILABLE
Specific gravity	1.52 to 1.54

<b>Solubility (water)</b>	SOLUBLE
<b>Vapour pressure</b>	NOT AVAILABLE
<b>Upper explosion limit</b>	NOT RELEVANT
<b>Lower explosion limit</b>	NOT RELEVANT
<b>Partition coefficient</b>	NOT AVAILABLE
<b>Autoignition temperature</b>	NOT AVAILABLE
<b>Decomposition temperature</b>	NOT AVAILABLE
<b>Viscosity</b>	NOT AVAILABLE
<b>Explosive properties</b>	NOT AVAILABLE
<b>Oxidising properties</b>	NOT AVAILABLE
<b>Odour threshold</b>	NOT AVAILABLE
<b>9.2 Other information</b>	
<b>Density</b>	1.52 to 1.54 @ 20°C

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Carefully review all information provided in sections 10.2 to 10.6.
<b>10.2 Chemical stability</b>	Stable under recommended conditions of storage.
<b>10.3 Possibility of hazardous reactions</b>	Polymerization is not expected to occur.
<b>10.4 Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>10.5 Incompatible materials</b>	Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and metals.
<b>10.6 Hazardous decomposition products</b>	May evolve toxic gases (phosphorus oxides) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Information available for the product :

Based on available data, the classification criteria are not met.

#### Information available for the ingredient(s) :

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
Phosphoric acid	1530 mg/kg (rat)	2740 mg/kg (rabbit)	--

#### Skin

Contact may result in irritation, redness, rash and dermatitis. Prolonged or repeated contact may result in burns.

#### Eye

Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.

#### Sensitization

Not classified as causing skin or respiratory sensitisation.

#### Mutagenicity

Not classified as a mutagen.

#### Carcinogenicity

Not classified as a carcinogen.

#### Reproductive

Not classified as a reproductive toxin.

#### STOT – single exposure

Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.

#### STOT – repeated exposure

Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.

#### Aspiration

Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** No information provided.
- 12.2 Persistence and degradability** No information provided.
- 12.3 Bioaccumulative potential** No information provided.
- 12.4 Mobility in soil** No information provided.
- 12.5 Other adverse effects** Phosphoric acid is hazardous to aquatic life at high concentrations. While acidity may be reduced by natural water minerals, the phosphate may persist indefinitely. When spilled onto soil, it will permeate downward, and may dissolve some of the soil matter, especially carbonate-based materials. Some acid will be neutralised, however significant amounts will remain for transport to groundwater.

## 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
- Waste disposal** Wearing the protective equipment detailed above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well ventilated area.
- Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
<b>14.1 UN Number</b>	None Allocated	None Allocated	None Allocated
<b>14.2 Proper Shipping Name</b>	None Allocated	None Allocated	None Allocated
<b>14.3 Transport hazard class</b>	None Allocated	None Allocated	None Allocated
<b>14.4 Packing Group</b>	None Allocated	None Allocated	None Allocated

- 14.5 Environmental hazards** No information provided.
- 14.6 Special precautions for user**
- Hazchem code** None Allocated



## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Poison schedule</b>	Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
<b>Classifications</b>	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].
<b>Hazard codes</b>	Xi            Irritant
<b>Risk phrases</b>	R36/38      Irritating to eyes and skin.
<b>Safety phrases</b>	S26          In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45          In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
<b>Inventory listing(s)</b>	<b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b> All components are listed on AICS, or are exempt.

## 16. OTHER INFORMATION

### Additional information

#### ACIDS:

When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

#### RESPIRATORS:

In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS #</b>	Chemical Abstract Service number - used to uniquely identify chemical compounds
<b>CNS</b>	Central Nervous System
<b>EC No.</b>	EC No - European Community Number
<b>EMS</b>	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
<b>GHS</b>	Globally Harmonized System
<b>GTEPG</b>	Group Text Emergency Procedure Guide
<b>IARC</b>	International Agency for Research on Cancer
<b>LC50</b>	Lethal Concentration, 50% / Median Lethal Concentration
<b>LD50</b>	Lethal Dose, 50% / Median Lethal Dose
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>OEL</b>	Occupational Exposure Limit
<b>pH</b>	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
<b>ppm</b>	Parts Per Million
<b>STEL</b>	Short-Term Exposure Limit
<b>STOT-RE</b>	Specific target organ toxicity (repeated exposure)
<b>STOT-SE</b>	Specific target organ toxicity (single exposure)
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>SWA</b>	Safe Work Australia
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average

**Disclaimer**

This document has been prepared by Rural Liquid Fertilisers (RLF), and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

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**End of SDS**