



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name RAPID ZINC LIQUID FERTILISER

Other Names Liquid fertiliser, Fluid fertiliser, Solution fertiliser

Uses Liquid fertiliser
Chemical Family No Data Available
Chemical Formula No Data Available
Chemical Name No Data Available
Product Description No Data Available

Contact Information Australia Location Telephone Ask For

Rural Liquid Fertilisers Pty Ltd 61 Dowd Street +61 1800 753 000 Technical Officer

Welshpool WA 6106

2. HAZARDS IDENTIFICATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

Goods are IATA Non-Dangerous.

Hazardous Substance Rapid Zinc Liquid Fertiliser is not classified as hazardous according to Safe Work

Australia criteria.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Identification	Content
PHOSPHORIC ACID	CAS: 7664-38-2 EC: 231-633-2	<15%
NON HAZARDOUS INGREDIENTS	Not Available	Remainder

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure:

Swallowed If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to drink.

Induce vomiting only if conscious. Seek medical assistance, if more than a small quantity has been

swallowed, or if there is pain, or difficulty with swallowing.

Eyes Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally.

Seek medical attention if irritation develops.

Skin Gently flush affected areas with water. Seek medical attention if irritation develops. Remove all

contaminated clothing and launder before re-use.

Inhaled Handling If over exposure occurs remove affected person to a well ventilated area. Keep warm and at rest. In

emergency situations, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest

commence cardio-pulmonary resuscitation immediately. Seek urgent medical attention.

Advice to Doctor No special treatment is indicated. Treat symptomatically.















5. FIRE FIGHTING MEASURES

Flammability Conditions Non flammable and does not support combustion. **Extinguishing Media** Extinguish fires with a large amount of water.

Personal Protective Equipment No Data Available Flash Point No Data Available **Lower Explosion Limit** No Data Available Upper Explosion Limit No Data Available **Auto Ignition Temperature** No Data Available **Hazchem Code** No Data Available

6. ACCIDENTAL RELEASE MEASURES

Containment and Clean Up Any spillage should be contained promptly with sand, earth or vermiculite. Recover contained product

and recycle. Absorb remaining product in sand, earth or vermiculite. Wash down area and prevent

run-off into drains, sewers, or waterways.

7. STORAGE AND HANDLING

Handling Keep away from copper, zinc, or their alloys, aluminum, or its alloys, mild steel, or concrete

when transporting.

Storage Store in a dedicated clean tank. Avoid contamination with any chemical. Avoid evaporation of water

from the liquid fertiliser. Store away from incompatible materials, which include strong acids,

hypochlorites, bleach, pool chlorine, or chlorine based cleaning products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits No exposure standards allocated.

Personal Protective Equipment Wear rubber or PVC gloves to prevent skin contact. Where mist is a problem use a P2 type canister

Respirator. Wear PVC jacket and pants to prevent contact. Wear chemical safety glasses to prevent

Engineering Controls Use in well ventilated areas. Avoid high mist concentration.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Clear, Blue Liquid **Odour Odourless** Colour Blue pH of 1% solution 2.9 to 3.3

Vapour Pressure Does not exert significant vapour pressure.

Relative Vapour Density No Data Available

Boiling/Melting Point >100 C

Freezing Point No Data Available **Evaporation Rate** No Data Available

Solubility Miscible in all proportions with water.

Specific Gravity 1.521 to 1.531 **Volatile Percent** No Data Available **Flammability** Not Flammable

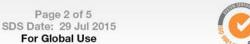
Flash Point Not relevant, does not give off flammable vapours.

Auto Ignition Temp No Data Available













10. STABILITY AND REACTIVITY

Reactivity Rapid Zinc Liquid Fertiliser is not compatible with copper, zinc, or their alloys (i.e. bronze, brass,

galvanised metals, etc.), aluminum, mild steel and concrete. Do not use the above materials of

construction in handling systems, or storage containers for Rapid Zinc Liquid Fertiliser.

11. TOXICOLOGICAL INFORMATION

General Information Rapid Zinc Liquid Fertiliser has low toxicity. Use safe work practices to avoid eye or skin contact

and mist inhalation. Prolonged or repeated exposure may cause drying of the skin with cracking and

irritation that may lead to dermatitis.

Target Organs Respiratory system, eyes and skin. Routes of Entry Ingestion or Inhalation.

Eye Irritant May cause irritation, redness and pain following contact.

Ingestion Presents moderate toxicity, unless large amounts are ingested. Large amounts give rise to

gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhoea. Large amounts may also cause dilation of blood vessels by direct smooth muscle relaxation and methaemoglobinaemia (excessive conversion of haemoglobin to methaemoglobin, which is incapable of binding and carrying oxygen - methaemoglobin is formed when iron in the haem molecule is oxidised from the ferrous to the ferric state). Symptoms include dizziness, abdominal pain, vomiting,

bloody diarrhoea, weakness convulsions and collapse.

Inhalation High mist concentration of air-borne material may cause irritation to the nose and upper respiratory

tract. Symptoms may include coughing and sore throat. Prolonged exposure may be harmful.

Skin Irritant Prolonged contact may cause some irritation, including redness and itching. No harmful effects from

skin contact have been reported.

12. ECOLOGICAL INFORMATION

Environment It is not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.

Contact the manufacturer if additional information is required.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

Goods are IATA Non-Dangerous.

15. REGULATORY INFORMATION

ERMA Approval Code N/A
HSNO Hazard Classification N/A
NZ Toxic Substance N/A
AICS Name N/A
EPG N/A
Poisons Schedule N/A













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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Key/	Lea	end

NOHSC	National Occupational Health and Safety Commission	
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons	
ACGIH	American Conference of Government Industrial Hygienists	
ES-TWA	Exposure Standard – Time weighted average	
ES-STEL	Exposure Standard – Short term exposure level	
ES-Peak	Exposure Standard – Peak level	
LD Lo	The lowest dose in an animal study in which lethality occurred	
LD 50	LD50 Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation	
TD Lo	The lowest dose of a substance known to have produced signs of toxicity	
TC Lo	Lowest published toxic concentration	
LC Lo	Lowest published lethal concentration	
LC 50	Lethal concentration that kills 50% of an animal population within a specified time	
t/m³	Tonnes per cubic metre	
mg/m³	Milligrams per cubic metre	
mg/kg	Milligrams per kilogram	

g/L Grams per litre

%w/v Weight per volume percentage%w/w Weight per weight percentage

SG Specific Gravity

pH relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0

is highly acidic and 14 is highly alkaline













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







