



1. Identification

Product Name Plasma Fusion Liquid Fertiliser

Other Names Liquid fertiliser, Fluid fertiliser, Solution fertiliser

UsesLiquid fertiliserChemical FamilyNo Data AvailableChemical FormulaNo Data AvailableChemical NameNo Data AvailableProduct DescriptionNo 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. Hazard 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 Plasma Fusion Liquid Fertiliser is not classified as hazardous according to Safe Work Australia criteria.

3. Composition/Information on Ingredients

GUARANTEED QUANTITY OF ELEMENT

Nitrogen (N)	91.47 g/l	9.1w/v %	6.3 w/w %
Phosphorus (P ₂ O ₅)	249.34 g/I	24.9 w/v %	17.1 w/w %
Potassium (K,0)	30.86 g/l	3.1 w/v %	2.1 w/w %

SECONDARY ELEMENTS OR TRACE ELEMENTS

Sulphur (S)	31.32 g/l	3.13 w/v %	2.1 w/w %
Magnesium (Mg)	16.42 g/l	1.64 w/v %	1.12 w/w %
Iron (Fe)	2.37 g/l	0.24 w/v %	0.16 w/w %
Zinc (Zn)	41.22 g/l	4.12 w/v %	2.82 w/w %
Copper (Cu)	2.6 g/l	0.26 w/v %	0.18 w/w %
Manganese (Mn)	10.61g/l	1.06 w/v %	0.73 w/w %
Boron (B)	5.8 g/l	0.580 w/v %	0.40 w/w %
Molybdenum (Mo)	0.33 g/l	0.033 w/v %	0.02 w/w %
Cobalt (Co)	0.08 g/l	0.008 w/v %	0.01 w/w %

4. First Aid Measures

Swallowed

Description of necessary measures according to routes of exposure:

If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to drink. DO NOT induce vomiting. Seek medical assistance, if more than a small quantity has been swallowed, or if there is pain, or difficulty with swallowing.

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4. First Aid Measures

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 This product contains nitrates, which may be reduced to nitrites by intestinal bacteria.

Nitrites may affect the blood (methaemoglobinaemia) and blood vessels (vasodilating and a fall in blood pressure). Effects peak within 30 minutes. Clinical signs of cyanosis appear before

other symptoms because of the dark pigmentation of methaemoglobin.

Institute cardiac monitoring, especially in patients with coronary, artery, or pulmonary disease.

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
No Data Available
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. Handling and Storage

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.

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8. Exposure Controls / 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 eye contact.

9. Physical and Chemical Properties

Physical State Liquid
Appearance Liquid

Odour Slight Pungent Odour Colour Greenish/Brown

pH of 5% solution Acidic

Vapour Pressure Does not exert significant vapour pressure.

Relative Vapour Density No Data Available

Boiling/Melting Point N/A

Freezing Point No Data Available
Evaporation Rate No Data Available

Solubility Miscible in all proportions with water.

 Specific Gravity
 Extremely High

 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 Plasma Fusion 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 Plasma Fusion Liquid Fertiliser.

11. Toxicological Information

General Information Plasma Fusion 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.

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11. Toxicological Information

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

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16. Other Information

Key/Legend

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

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/I 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

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