

Section 1 - Identification of Chemical Product and Company

Chemical nature: Liquid Fertiliser
Trade Name: FERTECH ESSENTIAL
Product Use: Liquid Fertiliser (soil nutrient)
Supplier: Globe Australia Pty Ltd
 3/29 Birnie Ave
 Lidcombe NSW 2141
 Phone: 02 9395 1200 (office hours)
 Fax: 02 4729 3037
 www.amgrow.com.au

This version issued: March 2017 and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

SUSMP Classification: Not scheduled

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing.
- P281: Use personal protective equipment as required.

RESPONSE

- P353: Rinse skin or shower with water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

- P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

- P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Emergency Overview

Physical Description & colour: Purple/blue liquid

Odour: Slight odour.

Major Health Hazards: Large quantities may cause gastrointestinal irritation

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc. %
Urea	57-13-6	
Mono Ammonium Phosphate (MAP)	7722-76-1	
Potassium Nitrate	7757-79-1	
EDTA Iron Chelate	14708-41-5	
EDTA Zinc Chelate	14025-21-9	100
EDTA Manganese Chelate	15735-84-5	
EDTA Copper Chelate	14025-15-1	
Water	7732-18-5	

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: No first aid measures normally required. However, if inhaled, and irritation has developed, remove to fresh air and observe until recovered

Skin Contact: If product gets on skin, wash contacted areas. No further measures should normally be required.

Eye Contact: Irrigate with copious amounts of lukewarm, gently flowing water until the product is removed or irritation has ceased, while holding the eyelid(s) open.

Ingestion: Rinse out mouth with plenty of water. Give a glass of water if affected person able to drink.

Notes to Doctor: Treat symptomatically. Note the nature of this product.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire Decomposition: may result in the generation of carbon monoxide, carbon dioxide, aldehydes (including formaldehyde),

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Flammability Class: Not flammable

Section 6 - Accidental Release Measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or watercourses. Wear goggles and gloves. Stop leak if safe to do so and contain spill. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. This material may be suitable for approved landfill.

Section 7 - Handling and Storage

Handling: Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store packages of this product in a cool place. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging – there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits

TWA(mg/m3)	STEL(mg/m3)	ADI(mg/Kg/day)	NOEL(mg/Kg/day)
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Exposure limits have not been set by SWA for any other ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for 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 term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, 31st March 2012

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Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Eye Protection: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear.

Skin Protection: Wear gloves to prevent skin contact.

Respirator: It is usually safe to not use a dust mask or respirator protection on account of this product.

Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour: Purple/blue liquid

Odour: Slight odour

Boiling Point: approx 100°C

Vapour Pressure: No data

Vapour Density: No data

Specific Gravity: No data

Water Solubility: Soluble

pH: No data

Evaporation rate: No data

Volatility: No data.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Heat, flames.

Incompatibilities: Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminium, tin, lead, and zinc. Also, avoid acids

Fire Decomposition Products: Oxides of sulphur and manganese

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Health Hazard Summary: Low toxicity. This product may only present a hazard with eye contact, prolonged and repeated skin contact or with ingestion of large quantities

Toxicity to Animals:

No Data

Potential Health Effects

Inhalation: If product in high concentrations of airborne mist, prolonged contact may cause irritation to the nose and throat.

Skin Contact: May cause irritation. Some individuals with sensitive skin may experience adverse skin reactions and would be advised to discontinue use.

Eye Contact: Exposure may result in irritation, pain and redness

Ingestion: May cause digestive tract irritation, with accompanying nausea, vomiting and diarrhoea if consumed in large quantities

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Environment: Avoid contamination of waterways.

Persistence/degradation: Will persist for weeks in soil, but is a plant nutrient.

Mobility: Readily leaches

Bioaccumulative potential: Unknown but probably low.

Section 13 - Disposal Considerations

Disposal: Dispose of empty container by wrapping in paper, placing in plastic bag and putting in garbage.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail	IMDG	International Maritime Dangerous Good
AICS	Australian Inventory of Chemical Substances	IMSBC	International Maritime Solid Bulk Code
CAS number	Chemical Abstracts Service Registry Number	NTP	National Toxicology Program (USA)
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
IARC	International Agency for Research on Cancer	SWA	Safe Work Australia (formerly ASCC and NOHSC)
IATA	International Air Transport Authority	UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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