



SprayGro Liquid Fertilizers

A.B.N. 47 007 974 496

ESSENTIAL PLUS

Material Safety Data Sheet

Date last revised 2nd November 2004

I. General Information

Chemical Name & Synonyms: Aqueous solution of plant extracts.	Trade Name & Synonyms: Essential Plus
Chemical Family: Liquid Growth Promotant and soil conditioner.	Formula: Amino Acids 2.75%, Humic Acid 7% Cellulose Fibre 10% + Trace elements.
Proper DOT Shipping Name: N/A	DOT Hazard Classification: Not classified.
Manufacturer: Foliar Fertilizers Pty Ltd	Manufacturer's Phone Number: Phone: 08 8447 7266 Fax: 08 8240 1844 – Head Office 0438 897 977 – Product Chemist 0407 606 409 – Brett Kearsley
Manufacturer's Address: Gillman, Adelaide, South Australia	

II. Ingredients

Principal Hazardous Components:	Percent:	Threshold Limit Value (units)
None	None	None

III. Physical Data

Boiling Point (°C) 100°C approx	Specific Gravity (H₂O=1) 1.080 ± 0.005
Vapour Pressure (mm Hg.) As that of water	Percent Volatile By Volume (%) N/A
Solubility in Water: Completely soluble	Evaporation Rate (_____ =1) N/A
Appearance & Odour: Viscous brown solution with characteristic odour.	PH 7.9 – 8.1

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) Non Flammable	Auto Ignition Temperature: N/A
Flammable Limits: N/A	LEL: N/A
Extinguishing Media: Water spray and carbondioxide.	UEL: N/A
Special Fire Fighting Procedures: Wear full protective suit and wear a breathing apparatus. Isolate area.	
Unusual Fire & Explosion Hazards: May evolve carbondioxide, carbonmonoxide, oxides of nitrogen and ammonia.	

N/A – Not Applicable



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V. Health Hazard Data

OSHA Permissible Exposure Limit:

Not determined

Carcinogen-NTP Program:

N/A

Symptoms of Exposure:

Irritation to skin and skin sensitisation.

Medical Conditions Aggravated by Exposure:

Irritate nose, throat and lungs.

Primary Route(s) of Entry:

Damages skin, wounds and inhalation of spray fumes.

Emergency First Aid:

Eyes: Flush immediately for 15 minutes. Skin: Flush immediately and thoroughly with water. Ingestion: If conscious, immediately give large quantity of water but do not induce vomiting. Consult a physician promptly. Treat symptomatically.

ACGIH Threshold Limit Value:

N/A

Carcinogen-IARC Program:

N/A

V I. Reactivity Data

Stability

	Unstable
X	Stable

Conditions To Avoid:

Direct sunlight for long and freezing temperature.

Material To Avoid:

Strong acids and alkalies, oxidizing agents and salts of Barium, Strontium and mercury.

Hazardous Decomposition Products:

Ammonia with bad smell.

V I I. Environmental Protection Procedures

Spill Response:

Soak up with inert material. Flush area with water, do not contaminate water ways.

Waste Disposal Method:

Comply with your State, Federal and Local Governments.

V I I I. Special Protection Information

Eye Protection:

Wear full protective goggles.

Respiratory Protection (Specific Type)

NIOSH for ammonia

Other Protection:

Do not inhale spray fumes

Skin Protection:

Wear overall, rubber gloves and clothes while handling this product.

Ventilation Recommended:

Natural ventilation.

I X. Special Precautions

Hygienic Practices in Handling & Storage:

Wash hands after use. Do not store near food, food containers, pet food, cartons etc. Store in a cool but dry place.

Other Precautions:

Keep out of reach of children and pets. Always perform a bucket test if mixing this product with others.

X. Environmental Information

Undergoes ionic dissociation. May be toxic to aquatic life. Do not contaminate land with concentrate and water bodies.

N/A – Not Applicable

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