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MATERIAL SAFETY DATA SHEET

HERBI-SAFE™

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HERBI-SAFE™
Company Name & Address Nutri-Tech Solutions Pty Ltd.
 (ABN 47 641 760 725)
 7 Harvest Road
 Yandina Qld 4561 Australia

Telephone +61 7 5472 9900.
Fax +61 7 5472 9999.
Emergency Tel:
Police and Fire Brigade 000 (In Australia)
If ineffective 13 22 03 (Exchange in Australia).
For emergency response 03 9573 3112 (In Australia).
National Poisons Information Centre 13 11 26 (from anywhere in Australia)

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE

 Classified irritant according to the criteria of NOHSC.
 Not classified as a dangerous goods according to the
 Australian Dangerous goods code 6th Edition.
 Not classified as a scheduled poison according to the
 NDPSC.

Risk Phrase (s) R36/3 - Irritating to eyes and skin

Safety Phrase (s) S2 - Keep out of reach of children
 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)

3. COMPOSITION/ INFORMATION ON INGREDIENTS



ABN 83 010 472 590

NUTRI-TECH SOLUTIONS P/L

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HERBI-SAFE™

Ingredients Name

Citric Acid

CAS 77-92-9, Conc: 15-30%

Fulvic Acid

CAS N/A, Conc: 3-10%

Oils

CAS N/A, Conc. 20-40%

Emulsifiers

CAS N/A, Conc: 1-2%

4. FIRST AID MEASURES

- Inhalation** If inhalation of mists causes irritation of the nose or throat, remove to fresh air. Get medical attention if irritation continues or breathing difficulty develops. Provide MSDS.
- Ingestion**..... This product is hazardous only due to its low pH, that could cause irritation. Seek medical advice if unwell.
- Skin**..... Remove contaminated clothing immediately. Wash skin immediately with plenty of soap and water.
- Eye** Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. If irritation persists, get medical attention. Provide MSDS.
- First Aid Facilities** Safety showers, eye wash and normal wash room facilities.
- Advice to Doctor** Product has a low pH and therefore may cause some irritation.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Equipment** Carbon dioxide (CO₂), dry powder, foam or water (no restriction on the type of extinguisher).
- Media Specific Hazards**..... Not flammable.
- Hazchem Code**..... None listed.
- Precautions in connection with fire**..... Contain run-off to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES





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Spills and Disposal	CONTAIN SPILL. Do not discharge waster liquid into streams. Avoid contact with product. Use personal protective equipment as outlined in Section 8. Do not smoke, drink or eat during clean-up procedure.
Waste Disposal Method	Spills should be contained and absorbed with insert absorbent materials. Place contaminated absorbent in a drum and dispose of in accordance with disposal regulations. Liquid spills that soak into the ground should be dug up and disposed on with contaminated absorbent. Leaking containers should be separated from intact containers and either the container or its contents transferred to a drum. Dispose of leaking container in accordance with disposal regulations.
Packaging Treatment	Triple or preferably pressure rinse containers before disposal. Add rinsings to dip/spray tank. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury the empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with eyes and skin. Do not inhale spray mist. Use personal protective equipment at outlined in Section 8.
Conditions for Safe Storage	Keep out of reach of children. Store in the closed, original container in a cool, dry, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do not re-use the container for any purpose.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

National Exposure Standards:	Citric acid: Airborne concentration below which most persons will experience no appreciable health risk is 1.5 mg/m ³ , but serious effects can begin at 30 mg/m ³
Engineering Controls	Provide ventilation to minimise exposure. If mists are generated, their concentration in the workplace air should be controlled to the lowest reasonable practicable level.
Respiratory Protection	Wear suitable disposable fume mask. Refer to Australian standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protection Devices; and AS/NZS 1716, Respiratory Protection Devices.





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Eye Protection	The use of face shield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - selection use and maintenance.
Body Protection	The use of plastic apron, sleeves, overalls and rubber boots is recommended.
Hygiene Measures	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown liquid.
Melting Point	No data available.
Boiling Point	No data available.
Solubility in water	Totally miscible.
Specific Gravity	1.1 @ 20°C
Vapour Pressure	No data available.
Flash Point	N/A.
Flammability	Non combustible material.
pH	1.5-1.8.
Odour	Minimal.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Incompatible Materials	None known
Hazardous Decomposition Products	None known
Hazardous Reactions	No dangerous reaction known under conditions of use.

11. TOXICOLOGICAL INFORMATION

Oral Toxicity	LD ₅₀ (rat) 5500 mg/ kg (citric acid)
Inhalation Toxicity	Can cause irritation and damage to mucosal surfaces.
Skin Irritation	May cause irritation.
Eye Irritation	May cause discomfort with pain and redness.
Mutagenicity	No data available.
Metabolism	No data available.

12. ECOLOGICAL INFORMATION





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No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Triple or preferably pressure rinse containers before disposal. Add rinsings to dip/spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information Not a Dangerous Goods
UN Number None allocated.
Proper Shipping Name None allocated.
DG Class None allocated.
Hazchem Code None allocated.
Packaging Method None allocated.
Packing Group None allocated.
EPG Number None allocated.
IERG Number None allocated.

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP): None

16. OTHER INFORMATION

Abbreviations Used:

- ADG = Australian Dangerous Goods Code, Rail & Road, 6th Edition
- CAS Number - Chemical Abstract Service Registry Number
- EPG = Emergency Procedure Guide
- NDPSC = National Drugs and Poisons Scheduling Committee
- NOHSC = National Occupational Health and Safety Commission
- SUSDP = Standard for the Uniform Scheduling of Drugs and Poisons

DISCLAIMER

The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. **Nutri-Tech Solutions P/L**, assumes no responsibility for the injury to





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customers or third party proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.

END OF MSDS

