Safety Data Sheet

Farmshield PHD

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

Product Name	**Farmshield PHD**
Recommended Uses	Acidifier for livestock drinking water
Supplier	Hygiene Technologies Ltd
Street address	28 Rangitane Road Hasting
Telephone Number	(06) 876 4111
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

Dangerous Goods	This product is not classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land
Hazardous Substances	Classified as hazardous according to criteria in GHS 7.
GHS	Serious eye damage – Category 1
SIGNAL WORD	**DANGER**
Pictograms	Corrosion



Hazard Statements	H318 Causes serious eye damage.
Precautionary Statements Prevention	P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P280 Wear protective gloves, protective clothing including eye protection.
Response	P101 If medical advice is needed, have product container or label at hand. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a doctor.
Storage Statement	Not allocated
Disposal Precautionary Statement	Not allocated
General	P102 Keep out of reach of children. P103 Read carefully and follow all instruction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion
Citric acid	77-32-5	30-60 % (w/w)

4. FIRST AID MEASURES

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor If medical advice is needed, have product container or label at hand.

Swallowed	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
Eye Contact	Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.
Skin Contact	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
Inhaled	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
PPE for First Aiders	Wear rubber boots, overalls, gloves, apron, chemical goggles. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Notes to physician	Treat symptomatically. Can cause corneal burns.

5. FIRE-FIGHTING MEASURES

Specific Hazard	Non-combustible material
Suitable Extinguishing Media	If material is involved in a fire, use water fog (or in unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Fire/Explosion Hazards	Non-combustible, however following evaporation of aqueous component, residual material can decompose if involved in a fire, emitting toxic fumes. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to products of decomposition.
Hazchem Code	Not applicable

6. ACCIDENTAL RELEASE MEASURES

Small Spills	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of spray or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
Large Spills	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of spray. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling advice	Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.
Storage advice	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Guidelines	No value assigned for this specific material by the NZ Occupational Safety and Health Services (OSH).
Engineering Controls	Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Keep containers closed when not in use.
Personal Protective Equipment	Wear chemical resistant disposable gloves (e.g., PVC), safety glasses safety rubber boots, chemical goggles, respirator (where an inhalation risk exists), overalls and apron. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Always wash hands before smoking, eating, drinking or using the toilet. When handling do not eat, drink or smoke. Wash contaminated clothing and other protective equipment before storage or reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Nil odour
Solubility	Miscible with water
Specific Gravity	1.356
Flash Point (^{0}C)	Not applicable
pH	1.25-1.3 (5%v/v)
Freezing Point	Not available
Boiling Point	Not available

10. STABILITY AND REACTIVITY

Stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperatures and sources of ignition.
Incompatible materials	Oxidising agents.
Reactivity	No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Swallowed	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye Contact	A severe eye irritant. Corrosive to eyes. Contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Skin Contact	Contact with skin will result in severe irritation.
Inhaled	Material may be corrosive to mucous membranes and respiratory tract.
Long Term Effects	No information available for the product.
Toxicological Data	No LD_{50} data available for this product.

12. ECOTOXICOLOGICAL INFORMATION

Aquatic toxicity: This material has been classified as not hazardous for acute aquatic exposure.

Long-term aquatic hazard: This material has been classified as not hazardous for chronic aquatic exposure. Non- rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data.

13. DISPOSAL

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for unauthorised disposal by either landfill or via municipal sewers. Not to be discharged to drains, natural streams or rivers.

Special Precautions: Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements.

14. TRANSPORT INFORMATION

Road and rail transport	Not classified as dangerous goods by the criteria of the "australian code for the transport of dangerous goods by road & rail" and the "New Zealand NZS5433: Transport Of Dangerous Goods On Land".
Marine transport	Not classified as dangerous goods by the criteria of the international maritime dangerous goods code (IMDG code) for transport by sea.
Air transport	Not classified as dangerous goods by the criteria of the international air transport association (IATA) dangerous goods regulations for transport by air.

15. REGULATORY INFORMATION

NZ Inventory of Chemicals	All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).
Group Standard 2020	Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020: HSR002503

For more information refer to the ERMA website: www.epa.govt.nz

16. OTHER INFORMATION

Version: 1

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. The User is responsible to evaluate all available information when using the product for any particular use and to comply with all the current legislation.