

SAFETY DATA SHEET

Phos-Force™

Date of Issue: 24/07/2023

CLASSIFICATION OF MATERIAL

HAZARDOUS SUBSTANCE. DANGEROUS GOOD.
Classified as Hazardous according to Safe Work Australia (GHS)
Dangerous Good according to the Australian Dangerous Goods Code
SUSMP Scheduled Poison (Schedule 5)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Phos-Force™
UN Proper Shipping Name:	PHOSPHORIC ACID SOLUTION
Recommended Use:	Fertiliser
Company Name:	Nutri-Tech Solutions Pty Ltd
Address:	7 Harvest Road, Yandina, Qld 4561, Australia
Email:	info@nutri-tech.com.au
ABN:	83 010 472 590
Telephone:	+61 5472 9900
Emergency Telephone Numbers:	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 Nutri-Tech Solutions Mon-Fri 8:00am-4pm AEST 07 5472 9900 (Australia)

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage – category 1

Skin Corrosion –category 1

GHS Label elements



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Signal Word:	DANGER
Hazard Statement(s):	
H314	Causes severe skin burns and eye damage.
Precautionary Statement(s):	
Prevention:	
P260	Do not breathe spray mist.
P280	Wear eye/face protection and protective gloves.
P264	Wash hands thoroughly after handling.
Response:	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 POISON CENTRE or doctor.
P363	Wash contaminated clothing before reuse.
Storage:	
P405	Store locked up.
Disposal:	
P501	Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Phosphoric acid	7664-38-2	>25%
Calcium salts of nitric and phosphoric acid	N/A	10-30%
Potassium salts of nitric and phosphoric acid	N/A	10-30%
Urea	57-13-6	<1%
Other fertiliser ingredients determined to be non-hazardous	N/A	To 100%

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4. FIRST AID MEASURES

Ingestion:	Immediately rinse mouth with water (only if patient is conscious) and consult a physician or call the Poisons Information Centre. DO NOT induce vomiting due to risk of further damage. Give water or milk to drink if patient is conscious.
Eye:	Immediately rinse 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 and urgently contact a physician or poisons information centre. Transport to hospital or medical centre if severe aggravation of the ocular area occurs.
Skin:	Immediately wash contaminated skin with plenty of water using safety shower if available. Remove contaminate clothing and footwear. Seek medical attention. Launder clothing before re-use.
Inhalation:	Remove to fresh air. Seek medical attention.
First Aid Facilities:	Eye wash station and safety shower.
Advice to Doctor:	Treat symptomatically as for strong acids. Active charcoal is not useful in this case. Gastric lavage may be used.
General Information:	N/A

5. FIRE FIGHTING MEASURES

Flammability:	Aqueous solution, not flammable under normal conditions of use. Fire fighters recommended to wear SCBA.
Extinguishing media:	Compatible with dry chemical, water spray, regular foam and carbon dioxide fire extinguishing media.
Hazchem Code:	2R
Precautions in connection with fire:	Wear SCBA and contain run-off to prevent entry in water or drainage systems.

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6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Contain spill, do not discharge waste liquid into streams or waterways. Use personal protective equipment as outlined in section 8.
Methods and materials for contamination and clean-up:	<p>Small spills- Clean up all spills immediately. Avoid breathing vapours and contact with eyes and skin. Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable container for disposal.</p> <p>Large Spills- Clear area of personnel and move upwind. Alert fire brigade. Wear full body protective clothing with breathing apparatus. Prevent spillage from entering drains or water course. Contain spill with sand, earth or vermiculite. Collect recoverable product into labeled containers for disposal. Wash area with water and prevent run off from entering drains. If contamination of drains or waterways occurs advise emergency services.</p>

7. HANDLING AND STORAGE

Precautions for safe handling:	Wear protective equipment to avoid skin and eye exposure (refer to section 8). Do not inhale spray mist. Prohibit eating, drinking and smoking in contaminated areas.
Storage:	Keep out of reach of children. Store in a cool, dry area in original sealed container. Do not store in prolonged sunlight.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards (ingredients only):	Airborne exposure to phosphoric acid: TWA 1 mg/m ³ , STEL 3 mg/m ³ .
Biological Limit Values:	None established.
Engineering Controls:	Maintain adequate ventilation at all times. A system of local and/or general exhaust is recommended to keep exposure below the airborne exposure limits.
Personal Protective Equipment:	The following protective equipment is recommended when handling this product: safety glasses with side shields or a face shield complying with AS/NZS 1337, gloves of an impervious material conforming to AS/NZS 2161, rubber boots, overalls, plastic apron. Suitable respiratory equipment (e.g. disposable fume mask conforming to AS/NZS 1716) is required when spray mist is present. Ensure access to safety shower and eyewash station. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking and going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light yellow-green liquid.
Odour:	Odourless
pH:	0-2
Flammability:	Not combustible
Solubility in Water:	Fully miscible
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Specific Gravity:	1.35
Conductivity:	107-127 mS/cm
Melting Point:	No data available
Boiling Point:	105°C
Vapour Pressure:	No data available
Evaporation Rate:	No data available

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10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Hazardous Reactions & Materials to Avoid:	Avoid extreme heat, flames and ignition sources. Reacts vigorously with alkalis. Corrosive to mild steel. Hazardous polymerization will not occur.
Hazardous Decomposition Products:	Limited evolution of phosphorus and nitrogen oxides if burned.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. LD ₅₀ (rat) 1530 mg/kg (phosphoric acid)
Skin:	Causes burns.
Eye:	Causes burns.
Respiratory or skin sensitisation:	Vapours or mist may cause irritation.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
Specific Target Organ Toxicity (STOT) single exposure:	No data available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data available.
Aspiration Hazard:	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No information available.
Persistence/Degradability:	When released into water, acidity likely to be neutralized by natural water hardness minerals. Product is a fertiliser and readily assimilated into most plant systems. Some Australian native plants that do not readily assimilate phosphate may not tolerate this product.

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13. DISPOSAL CONSIDERATIONS

Disposal Method:	Where possible, product should be used for its intended purpose including the rinsings of the container. Dispose of in accordance with all local state and national regulations. Do not discard into drains or waterways.
Container:	Triple or preferably pressure rinse containers before disposal. Dispose of used container in accordance all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point). Empty containers and product should not be burned.

14. TRANSPORT INFORMATION

Classified as **DANGEROUS GOODS** for Road and Rail Transport (ADG Code), Marine Transport (IMDG Code) and Air Transport (IATA).

Proper Shipping Name:	PHOSPHORIC ACID SOLUTION
Hazard Class:	Class 8. Corrosive.
UN:	1805
Packing Group;	III
Hazchem Code:	2R
IMDG EMS Fire:	F-A
IMDG EMS Spill:	S-B

15. REGULATORY INFORMATION

SUSMP Poisons Schedule:	S5
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16. OTHER INFORMATION

Acronyms	
ADG Code:	Australian Code for the Transport of Dangerous Foods by Road and Rail
AICS:	Australian Inventory of Chemical Substances
CAS Number:	Chemical Abstracts Service Registry
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NOS:	Not Otherwise Specified
NTP:	National Toxicology Program (USA)
UN Number:	United Nations Number
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average (the average airborne concentration when calculated over a normal eight hour working day for five days a week)
LD₅₀:	Lethal Dose for 50% Mortality
SCBA:	Self Contained Breathing Apparatus

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 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 SDS