

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Phostemic 400SL**

Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**

Address: 407 State Highway 16

> Kumeu 0841, Auckland

+64 9 412 9817 Telephone: Fax: +64 9 412 9807 Website: www.adria.nz

0800 734 607 (24hr) **Emergency No:**

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023

Hazards Identification Section 2.

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR101342

Pictograms



Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Designed for biocidal action		Designed for biocidal action.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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Storage Code	Storage Statement
None allocated	

Disposal Code	ode Disposal Statement	
P501	Refer to Section 13.	

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content	CAS NUMBER.
Phosphorous acid (Phosphonic acid)	<28%	13598-36-2
Potassium carbonate	<35%	584-08-7
Salicylic acid	<1%	69-72-7
Other ingredients determined not to	To bal	
be hazardous		

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes If product or spray enters eyes, wash out immediately and continue

rinsing with clean water for at least 15 minutes. Obtain medical attention.

If on Skin After contact with skin, wash immediately with water for at least 15 min.

Immediately remove contaminated clothing. Wash contaminated clothing

before reuse.

If Swallowed If swallowed, drink several glasses of water or milk. Do NOT induce

vomiting. For advice, contact the National Poisons Centre on 0800 POISON

(0800 764766) or a doctor immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Seek medical assistance is needed.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable. **Inhalation:** Not applicable. **Skin:** Not applicable.

Eye: Causes serious eye irritation.

Chronic: Not applicable.

Treatment: Treat according to symptoms (decontamination, vital functions). No known

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.	
Hazards from	None known.	
products		
Suitable	Water spray, carbon dioxide (CO2), foam, dry chemical.	
Extinguishing		
media		
Recommended	Wear SCBA and chemical-protective clothing. Self-contained breathing	
protective clothing	apparatus is required. Do not allow the run off from firefighting media	
& Precautions for	to reach sewage or effluent systems. Dispose of fire debris and	
firefighters	contaminated extinguishing water in accordance with official	
	regulations. Addition of water may cause excessive foaming. Vapours	
	may be toxic.	
HAZCHEM CODE	None allocated	

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Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Absorb spills with inert material i.e. clay granules, sand or other absorbent material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with skin and eyes.
- Ventilation required.
- Keep away from: sparks, open flame and direct sunlight.
- Chemical resistant gloves and eye protection should be worn when handling this product. Other personal protective equipment appropriate to the situation when handling product, e.g. Full body cover [ankle to wrist clothing and boots] should also be worn.
- Wash protective clothing daily after work.

Precautions for Storage:

- Keep away from heat and protect from sunlight.
- Protect against freezing.
- Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls / Industrial Hygiene

Ensure adequate ventilation.

Personal Protection Equipment



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Eyes	Safety goggles with side-shields.
Hands	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)). Contaminated gloves should be washed. Gloves should be disposed of when contaminated on the inside, perforated or contamination on the outside cannot be removed.
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. Decontaminate contaminated clothing, remove and dispose of in accordance with the manufacturer's instructions.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles. Respiratory protection is not normally required except during the formation of mists or aerosols or in the case of fire.
General	Females of childbearing age should not come into contact with the product. Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work. Potentially fatal if inhaled. When handling wear full protective clothing such as gloves, hat, coat and trousers (worn outside rubber boots). Suitable or appropriate respiratory and eye protection should also be worn. The use of a skin barrier cream is useful to give additional skin protection.

Section 9 Physical and Chemical Properties

Appearance	Liquid, SL
Colour	Clear Liquid
Odour	Characteristic
Odour Threshold	Not available
pH	4 - 5.5
Melting Point/Boiling Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.5 g/L
Water Solubility	Soluble in water
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage and handling conditions.	
Possibility of hazardous reactions None known.		
Conditions to Avoid	Temperature extremes and direct sunlight.	
Incompatible Materials	No data available.	
Hazardous Decomposition	None known.	
Products		

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Not applicable.

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Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Monopotassium phosphonate	>5000mg/kg (Rats)	> 4000 mg/kg (Rats)	LC50 (4h) > 5.05 mg/m³ (Rats)
Dipotassium phosphonate	>5000mg/kg (Rats)		LC50 (4h) > 5.05 mg/m3 (Rats)

Section 12. Ecotoxicological Information

Ecological effects	Designed for biocidal action.	
information		
Persistence and	No data available	
degradability		
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity [LC50	Monopotassium phosphonate: rainbow trout >118	
mg/L] (96 h, flow-	Dipotassium phosphonate: rainbow trout >118	
through):		
Toxicity for daphnia	Monopotassium phosphonate: rainbow trout >118	
[EC50 mg/L] (48 h, flow-	Dipotassium phosphonate: rainbow trout >118	
through):		
Toxicity to algae:	No detailed data available.	
Toxicity for birds [LD50	Phosphonic acid: bobwhite quail >2250 mg/kg. Dietary LC50	
mg/kg]	for bobwhite quail and mallard ducks >5620 mg/kg diet.	
Toxicity bees [LD50	Phosphonic acid: bobwhite quail >2250 mg/kg. Dietary LC50	
μg/bee] (48 h)	for bobwhite quail and mallard ducks >5620 mg/kg diet.	
Precautions:	Do not allow to enter waterways.	

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

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Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR101342

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	Not required	
Emergency Response Plan (Schedule 5)	Not required	
Secondary Containment (Schedule 5)	Not required	
Tracking (Schedule 26)	Not required	
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls	
	document - HSR101342	
HSNO Additional Controls (Restrictions of use)		
	None known.	
ACVM Act and Regulations		
ACVM Approval No	P9389	
See <u>www.foodsafety.govt.nz</u> for		
registration controls		

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time

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of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

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