



## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **PHOENIX® FUNGICIDE**  
Chemical name of active ing: N-(Trichloromethylthio)phthalimide  
Product Use: Fungicide  
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd  
Address: Level 1/93 Bolt Road  
Tahunanui, Nelson  
Telephone: +64 3 543 8275  
Fax Number: +64 3 543 8274

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 28 May 2019

### Section 2. Hazards Identification

**This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2017***

**EPA Approval No: HSR101068**

#### Pictograms



Chronic



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.7B	H351	Suspected of causing cancer.	Carc. 2
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1/Aquatic Chronic 1
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P391	Collect spillage.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. <b>Precautions:</b> Do not allow product to enter waterways. <b>Disposal methods to avoid:</b> Do not burn product or container.

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Folpet	38-42	133-07-3
Fumaric Acid	1.0-1.5	110-17-8
Methenamine	0.5-1.0	100-97-0
Sulphonated aromatic polymer, sodium salt	3.0-5.0	Proprietary
Other non-hazardous ingredients	Balance	NA

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. If skin irritation: get medical advice/attention.
If Swallowed	If swallowed do NOT induce vomiting. Rinse mouth. Drink plenty of water. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) 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. Get medical advice if breathing becomes difficult.

#### Most important symptoms and effects, both acute and delayed

Symptoms:

<b>Ingestion:</b>	Not applicable.
<b>Inhalation:</b>	Not applicable.
<b>Skin:</b>	Not applicable.
<b>Eye:</b>	Not applicable.
Chronic:	Suspected of causing cancer.

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable.
<b>Hazards from combustion products</b>	CSC12, HCl, SO <sub>2</sub> , NO <sub>x</sub> , CO, CO <sub>2</sub>
<b>Suitable Extinguishing media</b>	Small fire: Dry chemical, foam, carbon dioxide. Large fire: Water spray, fog or regular foam.
<b>Precautions for firefighters and special protective clothing</b>	In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.
<b>HAZCHEM CODE</b>	<b>3Z</b>

**Section 6. Accidental Release Measures**

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. Evacuate area from unnecessary personnel.

Absorb remainder in sand or other inert material, placing in appropriate containers for disposal.

Dispose of according to Local Regulations.

**Section 7. Handling and Storage****Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid release to the environment.
- Use personal protective equipment as required.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store locked up.
- Keep container tightly closed in a dry and well-ventilated place.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.
- As a Class 9 Substance with Ecotoxicity Classifications, storage of Phoenix Fungicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

**Section 8 Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

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-

### Engineering Controls

Ensure adequate ventilation, especially in confined areas.

### Personal Protection Equipment



<b>Eyes</b>	Tight sealing safety goggles or face shield.
<b>Hands and Skin</b>	Wear suitable protective clothing and chemical resistant boots. Chemical resistant gloves.
<b>Respiratory</b>	During spraying wear suitable respiratory equipment.
<b>General</b>	When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Beige white liquid
<b>Odour</b>	Organic Slight
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	4.5 - 6
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	>80°C
<b>Flammability</b>	Not applicable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Relative Density</b>	1.24 - 1.28 (22°C)
<b>Solubilities</b>	Emulsifiable.
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-ignition Temperature</b>	>400°C
<b>Decomposition Temperature</b>	Not applicable
<b>Kinematic Viscosity</b>	1500 mm <sup>2</sup> /s 40°C
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Materials</b>	No information available.
<b>Hazardous Decomposition Products</b>	No information available.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.

<b>Skin</b>	Not applicable.
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**Chronic Effects:**

<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

	<b>Value</b>	<b>Species</b>	<b>Method</b>
Oral LD <sub>50</sub> mg/kg :	>5000	Rat	OECD 401
Dermal LD <sub>50</sub> mg/kg :	>2000	Rat	OECD 402
Inhalation LC <sub>50</sub> mg/l/4h :	>5.28	Rat	OECD 403

**Section 12. Ecotoxicological Information**

HSNO Classes: 9.1A = Very toxic to aquatic life.  
9.3C = Harmful to terrestrial vertebrates.

<b>Aquatic toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>
Fish 96-hour LC <sub>50</sub> mg/l :	0.256	Rainbow trout	OECD 204
Crustacea 48-hour EC <sub>50</sub> mg/l:	3.9	Daphnia magna	OECD 202
Algae 72-hour EC <sub>50</sub> mg/l :	48.4	Scenedesmus subspicatus	OECD 201
Other plants EC <sub>50</sub> mg/l :			OECD 221
<b>Terrestrial toxicity</b>			
Birds oral LD <sub>50</sub> mg/kg			
<b>Chemical name</b>			
Folpet :	>2510	Bobwhite quail	EPA 71-1
Bees oral LD <sub>50</sub> pg/ee			
<b>Chemical name</b>			
Folpet :	>236		EPPO 170 (1992) Oral
<b>Persistence and degradability</b>			
<b>Abiotic degradation</b>			
<b>Water DT<sub>50</sub> days</b>			
Folpet :	<0.05 O		ECD 111 pH 7
<b>Soil DT<sub>50</sub> days</b>			
Folpet :	4.3		SETAC 25°C
<b>Biodegradation</b>			
Folpet :	Readily biodegradable		OECD 301 B
<b>Bioaccumulative potential</b>			
<b>Partition coefficient</b>			
(n-octanol/water) Log Pow			
Folpet :	3.017		
<b>Bioconcentration factor (BCF)</b>			
Folpet :	56		OECD 305E
<b>Mobility in soil</b>			
Adsorption/desorption			
Folpet :	304		Koc

## Section 13. Disposal Considerations

**Disposal Method:** Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill.



**Precautions:** Do not allow product to enter waterways.

**Disposal methods to avoid:** Do not burn product or container.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012**

### Road and Rail Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (Folpet)

### Air Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (Folpet)

### Marine Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (Folpet)

### **Special Provisions:**

DGLQ Limit = 5L

## Section 15 Regulatory Information

HSNO Controls	Trigger Quantity
Approved Handler	The substance must be under the personal control of an approved handler when the substance is: (a) applied in a wide dispersive manner; or (b) used by a commercial contractor.
Location Certificate	Not required
Tracking Trigger Quantities	Any
Signage Trigger Quantities	100L
Emergency Response Plan	100L
Secondary Containment	100L

### **Restrictions and Controls**

- 1. This substance must not be applied into or onto water[1]**

[1] where 'water' means water in all its physical forms, whether flowing or not, and whether over or under ground, but does not include water in any form while in a pipe, tank or cistern or water used in the dilution of the substance prior to application.

## 2. Application Parameters

A person applying this substance must ensure the application is carried out in accordance with the following application restrictions:

- (a) the substance must not be applied at rates exceeding 1.5 L of formulated product/ha per application (equivalent to 0.75 kg folpet / ha); and
- (b) the substance must not be applied to the same area more than two times in any 365 day period; and
- (c) an interval of at least 14 full days must be observed before the substance is reapplied to the same area.

## 3. Restriction On Method Of Application

- (1) No person may apply this substance using aerial application methods.

EPA Approval Code: HSR101068

HSNO Classification: 6.7B, 9.1A, 9.3C

Refer to EPA website [www.epa.govt.nz](http://www.epa.govt.nz) for controls document - HSR101068

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Signage Trigger Quantities (Schedule 3)	100L (9.1A)
Emergency Response Plan (Schedule 5)	100L (9.1A)
Secondary Containment (Schedule 5)	100L (9.1A)
Tracking (Schedule 26)	Not required
HSW(Hazardous substance) Regulations Part 4 Certified Handlers and supervision and training of workers	HSW Reg 4.5 – 4.6 Information, instruction, training and supervision.
<b>HSNO Additional Controls (Restrictions of use)</b>	
<b>77A</b>	This substance must not be applied into or onto water[1] [1] where 'water' means water in all its physical forms, whether flowing or not, and whether over or under ground, but does not include water in any form while in a pipe, tank or cistern or water used in the dilution of the substance prior to application.
<b>77A</b> - A maximum application rate is set for this substance.	1) A person applying this substance must ensure the application is carried out in accordance with the following application restrictions: (a) the substance must not be applied at rates exceeding 1.5 L of formulated product/ha per application (equivalent to 0.75 kg folpet / ha); and (b) the substance must not be applied to the same area more than two times in any 365 day period; and (c) an interval of at least 14 full days must be observed before the substance is reapplied to the same area.
<b>77A</b> - A restriction has been placed on the application method for this substance.	(1) No person may apply this substance using aerial application methods.
<b>Hazardous Property Controls Notice 2017</b>	

HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 Pesticides
<b>ACVM Act and Regulations</b>	
ACVM Approval No See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration controls	P9257

## Section 16 Other Information

### Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

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Please contact the ADAMA, if further information is required.

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