



## SAFETY DATA SHEET FOLPAN 500 WP FUNGICIDE

### Section 1: Identification of the Substance and Supplier

**Product name:** FOLPAN 500 WP FUNGICIDE  
**Chemical name of active Ingredient(s):** N-(Trichloromethylthio)phthalimide  
**Supplier:** ADAMA New Zealand Limited  
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O. Box 1799, Nelson New Zealand.  
**Telephone:** +64 3 543 8275 Fax: +64 3 543 8274  
**Emergency Telephone:** 0800 POISON (0800 764 766) 24 Hour Service

### Section 2: Hazards Identification

**Hazard Classifications:** 6.1D, 6.3B, 6.4A, 6.5B, 6.7B, 9.1A  
**Most Important Hazards:** TOXICITY  
Warning –  
May be harmful if swallowed, inhaled or absorbed through the skin.  
May cause eye irritation and mild skin irritation  
May cause sensitisation from prolonged skin contact  
Suspected of causing cancer  
Avoid contact with skin and eyes. Avoid inhalation of spray mist or powder.  
ECOTOXICITY  
Very toxic to aquatic organisms.  
Avoid contamination of any water supply with product or empty container.

### Section 3. Composition/information on Ingredients

**Substance/preparation:** Preparation

#### Information on hazardous ingredients \*

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Folpet	133-07-3	50	205-088-6	Xn,N	R20-36-40-43-50

\* Occupational Exposure Limit(s), if available, are listed in section 8

### Section 4: First-Aid Measures

**First-aid measures :** Remove victim from area of exposure. Wash off remaining material with plenty of water.  
**Inhalation:** Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult: artificial respiration. Get medical attention.  
**Ingestion:** Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.  
**Skin contact:** Remove contaminated clothing. Wash away remainder with water and soap. Consult a doctor in the event of any complaints.  
**Eye contact:** Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.  
**Notes to a physician:** There is no specific antidote. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.



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### Section 5: Fire-Fighting Measures

#### Extinguishing media

**Suitable:** **Small fire:** Dry chemical, foam, carbon dioxide.  
**Large fire:** Water spray, fog or regular foam.

**Special fire-fighting procedures:** Fight fires from a protected location. Dike fire control water for later disposal.

**Hazardous thermal (de)composition products** CSC1<sub>2</sub>, HCl, SO<sub>x</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>

**Protection of fire-fighters :** Self-contained breathing apparatus and total protection required in enclosed areas.

### Section 6: Accidental Release Measures

**Personal precautions:** Wear suitable protective clothing. (see section 8)

**Environmental precautions:** Dispose of this material and its containers at hazardous or special waste collection point.  
If the product has contaminated surface water, inform the appropriate authorities.

**Methods for cleaning up:** Absorb remainder in sand or other inert material. Dispose of in an authorized waste collection.

### Section 7: Handling and Storage

**Handling:** Do not breathe dust. Avoid contact with skin and eyes.

**Storage:** 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 Folpan 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.

**Packaging materials:** Woven polypropylene bags with multi-ply paper inserts and polyethylene lining.

### Section 8: Exposure Controls/Personal Protection

**Engineering measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Hygiene measures:** When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

#### **Occupational Exposure Limits**

**Common name:** **Folpet**  
**"MAK" (Germany):** Not established

#### **Personal protective equipment:**

**Respiratory system:** During spraying wear suitable respiratory equipment.

**Skin and body:** Wear suitable protective clothing and chemical resistant boots.

**Hands:** Chemical resistant gloves

**Eyes:** Safety goggles or face shield.

### Section 9: Physical and Chemical Properties

**Physical state:** Powder

**Colour:** Off-white

**Odour:** Faint odour (characteristic)

**Molecular weight:** Folpet 296,56

**Melting Point:** Folpet 177°C (pure)



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<b>Bulk density:</b>	600g/l, (full compaction)
<b>Vapour pressure:</b>	$11.6 \times 10^{-5}$ Pa @ 40°C (Folpet)
<b>Solubility in water:</b>	Insoluble in water
<b>Octanol/water partition Coefficient</b>	Folpet $K_{ow} = 1279$
<b>Flammability:</b>	Not flammable
<b>Explosion properties:</b>	Not explosive

### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable under normal dry conditions
<b>Conditions to avoid:</b>	Protect from (sun) light, open flame, sources of heat and humidity.
<b>Materials to avoid:</b>	Alkali materials, such as lime and Bordeaux mixture will reduce fungicidal activity.
<b>Hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>Hazardous decomposition products:</b>	CSC <sub>12</sub> , HCl, SO <sub>x</sub> , NO <sub>x</sub> , CO, CO <sub>2</sub>

### Section 11. Toxicological Information

<b>Preparation:</b>	
<b>Acute toxicity - Oral:</b>	LD <sub>50</sub> (rat) >5 g/kg
<b>Acute toxicity - Dermal:</b>	LD <sub>50</sub> (rat) > 2 g/kg
<b>Acute toxicity – Inhalation:</b>	LD <sub>50</sub> (rat) = 5 mg/l, 4 hours
<b>Skin irritation:</b>	Slightly irritating (rabbit).
<b>Eye irritation:</b>	Irritating to eyes (rabbit).
<b>Sensitization :</b>	Guinea pig maximization test: sensitizer
<b>Common name:</b>	<b>Folpet</b>
<b>Carcinogenicity:</b>	A two-year feeding study of Folpan indicated duodenal tumors in mice after repeated administration of high dose levels. The NOAEL (No Observed Adverse Effect Level) was 450 ppm. No evidence of carcinogenicity was observed in long-term studies with rats. Information on the mechanism of tumor formation establishes a threshold for the duodenal tumors, and indicates that this tumor type is not relevant for human risk assessment at likely exposure levels.
<b>Mutagenicity:</b>	Not mutagenic (in-vivo tests)
<b>Reproduction toxicity:</b>	Not teratogenic in animal experiments.

### Section 12: Ecological Information

<b>Preparation:</b>	
<b>Common name:</b>	<b>Folpet</b>
<b>Mobility:</b>	Folpet does not leach to ground water.
<b>Persistence/degradability:</b>	The product is readily biodegradable.
<b>Ecotoxicity:</b>	Toxic to aquatic organisms (fish and algae), in laboratory experiments. Low toxicity in actual use, due to its hydrolytic instability.
<b>Birds:</b>	LD <sub>50</sub> > 2000 mg/kg

### Section 13: Disposal Considerations

<b>Methods of disposal:</b>	Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.
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## SAFETY DATA SHEET FOLPAN 500 WP FUNGICIDE

### Section 14: Transport Information

UN Number	3077
Proper shipping name	Environmentally hazardous substance, Solid, N.O.S, (Folpet)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	No
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**National transport regulations:** Do not carry this product on a passenger service vehicle.

**Segregation:** Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

### Section 15: Regulatory Information

#### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997. No P7255.  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR000460  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for registration conditions

**HSNO Classifications:** 6.1D, 6.3B, 6.4A, 6.5B, 6.7B, 9.1A



**ECOTOXIC**

**APPROVED HANDLER** - this product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

**RECORD KEEPING** - Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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#### **HISTORY**

**Date of printing:** 03/06/2014  
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