



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **FOLPAN 800 WG**
Item Code:
Product Use: Fungicide
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, 7011, Nelson
Telephone: +64 3 543 8275
Fax Number: +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 3 September 2018

Section 2. Hazards Identification

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

EPA Approval No: HSR101121

Pictograms



Irritant



Chronic



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.4A	H319	Causes serious eye irritation.	Category 2A
6.5B	H317	May cause an allergic skin reaction.	Category 1
6.7B	H351	Suspected of causing cancer	Category 2
9.1A	H400	Very toxic to aquatic life.	Category 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.
P264	Wash hands thoroughly after handling.

P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

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. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Folpet	78 - 85	133-07-3
phenolsulfonic acid-formaldehyde-polycondensate as sodium salt	2.0-3.0	N/A

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.
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:

Ingestion: Not applicable.

Skin: May cause an allergic skin reaction

Inhalation: Not applicable.
Eyes: Causes serious eye irritation.
Chronic: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable solid.
Hazards from combustion products	No specific hazard known.
Suitable Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Precautions for firefighters and special protective clothing	In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear full protective clothing including eye/face protection. Evacuate area from unnecessary personnel.

Take up mechanically, placing in appropriate containers for disposal.

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Dispose of according to Local Regulations.

Section 7. Handling and Storage

General Hygiene Considerations
When using do not eat drink or smoke

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- When using do not eat drink or smoke
- Avoid contact with skin, eyes or clothing.
- Wash hands thoroughly after handling.
- Wash contaminated clothing before re-use.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment and local exhaust ventilation 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.
- Keep in properly labeled containers.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients has 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.

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal Protection

Eyes	Protective glasses or goggles with shield shields must be worn when this product is being used.
Hands and Skin	Suitable protective clothing, Suitable protective clothing, Apron, Gloves made of plastic or rubber.
Respiratory	Not normally required. Product is a dust free granule unlikely to produce respirable dust. If however dust is seen to be present a cartridge type dust mask is recommended.
General	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not allow into any sewer, on the ground or into any body of water.

Section 9**Physical and Chemical Properties**

Appearance	Beige Granules
Odour	Slight Aromatic
Odour Threshold	Not applicable
pH	8.7 – 9.7 (CIPAC MT 75.3)
Boiling Point	Not applicable
Melting Point	Not applicable
Crystallization temperature	Not applicable
Flash Point	Not applicable
Flammability	Not Flammable (EEC A10)
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	Not applicable
Density	Not applicable
Relative Density	0.56 -0.66 (CIPAC MT 186)
Solubilities	Not applicable
Partition Coefficient:	Not applicable
Auto-ignition Temperature	Not applicable
Surface tension	Not applicable
Viscosity, dynamic	Not applicable

Bulk Density	0.68 (CIPAC MT 186)
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Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	No information available.
Hazardous Decomposition Products	None under normal use conditions.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Fatal if inhaled.
Eye	Causes severe eye irritation.
Skin	May cause an allergic skin reaction.

Chronic Effects:

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

Information on toxicological effects

Acute toxicity

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: > 2000	Rat	OECD 401	
Dermal LD50 mg/kg	: > 2000	Rat	EPA 81-2	
Inhalation LC50 mg/I/4h				Not available
Skin corrosion/irritation	:Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:Irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Skin sensitizer	Guinea pig	USEPA 81-6	

Chronic toxicity

Germ cell mutagenicity

Chemical Name
Folpet : Not classified

Carcinogenicity

Chemical Name
Folpet :Suspected of causing cancer

Reproductive toxicity . Not toxic to the reproductive system

STOT-Single exposure No data available

Folpet

STOT repeated exposure No data available

Folpet

Aspiration Hazard No data available

Section 12. Ecotoxicological Information

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

Aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity Fish 96-hour LC50 mg/I	: 0.22	Oncorhynchus mykiss	EU A.C1	Static
Crustacea 48-hour EC50 mg/I	: 0.68	Daphnia magna	OECD 202	Semi-static
Algae 72-hour EC50 mg/I	: > 10	Scenedesmus subspicatus	OECD 201	
Other plants EC50 mg/I				Not available

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name

Folpet : >2510

Bobwhite quail

EPA 71-1

Bees Oral LD50 pg/bee

Chemical Name

Folpet : >236

EPPO 170 (1992)

Persistence and degradability

Abiotic Degradation

Water DT50 days

Chemical Name

Folpet : <0.05

Method

OECD 111

Remarks

pH 7

Soil DT50 days

Chemical Name

Folpet : 4.3

SETAC

25° C

Biodegradation

Chemical Name

Folpet : Readily biodegradable

OECD 301 B

Bioaccumulative potential

Partition Coefficient

(n-octanol/water)

Log Pow Chemical

Name

Folpet : 3017

Method

Remarks

20°C

Bioconcentration factor (BCF)

Folpet : 56

OECD 305E

Mobility in soil

Absorption/Desorption

Folpet : 304

Koc

Results of PBT and vPvB assessment

The compounds in this formulation do not meet the criteria for classification as PBT or vPvB.

Other adverse effects

No information available

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: 3077
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS, SOLID N.O.S.

Air Transport

UN No: 3077
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS, SOLID N.O.S.

Marine Transport

UN No: 3077
 Class-primary 9
 Packing Group III
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS, SOLID N.O.S.
 Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15**Regulatory Information**

EPA Approval Code: HSR101121

HSNO Classification: 6.4A, 6.5B, 6.7B, 9.1A, 9.3C

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L(9.1A)
Emergency Response Plan	100L(9.1A)
Secondary Containment	100L(9.1A)
HSNO Additional Controls (Restrictions of use)	
77A	<p>The maximum application rate of this substance is 3125 g product/ha (equivalent to 2500 g folpet/ha). The maximum application frequency and minimum interval period of this substance must not be more than five applications, at a 7 days' interval, per calendar year. Seven day interval means that seven full days of no application of this substance must pass before any further application.</p> <p>The following limits are set for toxicologically relevant impurities in the active ingredient folpet used to manufacture this substance:</p> <ul style="list-style-type: none"> - Perchloromethylmercaptan: 3.5 g/kg maximum - Carbon tetrachloride: 4 g/kg maximum

	<p>The substance must not be applied onto or into water. 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.</p> <p>This substance must be applied using ground-based methods only.</p> <p>Ground-based methods of applying pesticides include, but are not limited to, application by ground boom, airblast or knapsack, and do not include aerial application methods.</p>
Hazardous Property Controls Notice 2017	
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 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
ACVM Act and Regulations	
Registered pursuant to the ACVM Act 1997, See www.foodsafety.govt.nz for registration conditions	No. P009329
For all further controls	Refer to EPA website (www.epa.govt.nz) for controls document - HSR101121

Section 16	Other Information
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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

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 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

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Please contact the Adama, if further information is required.

Issue Date: 3 September 2018

Review Date:

3 September 2023