

MATERIAL SAFETY DATA SHEET

FONGARID® 250 WP Systemic Fungicide

Date of Issue: 1 March 2006

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FONGARID® 250 WP Systemic Fungicide

Other Names: *Active Constituent:* Furalaxyl
Chemical Type: Phenylamide

Product Code: -

Recommended Use: A systemic fungicide for the control of damping off and root rot disease caused by *Pythium* and *Phytophthora* on ornamental plants.

Supplier: AgNova Technologies Pty Ltd

ACN / ABN: 097 705 158

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North Epping NSW 2121

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Email: info@agnova.com.au

Website: www.agnova.com.au

Contact: General Manager

Emergency Telephone Number: 1800 033 111

2. HAZARDS IDENTIFICATION

Hazard Classification: HAZARDOUS SUBSTANCE - NON DANGEROUS GOOD
Classified as hazardous according to the criteria of NOHSC.

Risk Phrases: R22 Harmful if swallowed.

Safety Phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (%w/w):
Furalaxyl (technical grade)		>25
to give furalaxyl	5764-30-7	25
Sodium alkyl benzimidazole sulphonate		<10
Sodium lignin sulphonate		<10
Other ingredients determined not to be hazardous		to 100

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Ingestion:** If more than 15 minutes from emergency medical care, induce vomiting preferably using Ipecac Syrup (APF).
- Inhalation:** Move affected person to fresh air and keep at rest until recovered.
- Skin Contact:** Remove contaminated clothing and wash affected areas thoroughly with soap and water.
- Eye Contact:** Flush with large quantities of clean tap water for at least 15 minutes.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.
- Medical Attention:** Treat symptomatically. No specific antidote exists.
- Aggravated Medical Conditions Caused by Exposure:** None.

5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Fine-water spray or foam.
Do not allow fire-water to enter drains.
- Hazards from Combustion Products:** None known.
Product is non-flammable and non-explosive.
- Special Protective Precautions and Equipment for Fire Fighters:** No special precautions required.
- Hazchem Code:** Not applicable

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6. ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:** In case of spillage it is important to take all steps necessary to:
- Avoid eye and skin contact.
 - Avoid contamination of waterways
- Methods and Materials for Containment and Clean Up Procedures:**
1. Keep all bystanders away.
 2. Wear full length clothing and PVC gloves.
 3. Reposition any leaking containers so as to minimise leakage.
 4. **For a product spill:** Sweep powder concentrate into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (eg. sand or soil).
 5. Shovel the absorbed material or powder concentrate into drums.
 6. Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50 kg of product, bury in a secure landfill site.
 - For quantities greater than 50 kg, seek advice from the manufacturer (use emergency contact number above) before attempting disposal. Contain in a secure location until disposal method is established.
 7. Decontaminate the spill area with detergent and water and rinse with water.

7. HANDLING AND STORAGE

- Precautions for Safe Handling:** Keep out of reach of children, unauthorised persons and animals.
- Conditions for Safe Storage, including any Incompatibilities:** Store in tightly sealed original containers in a dry secure place away from fertilisers, feed and food. Store out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- National Exposure Standards:** No exposure standard set for this product.
- The nuisance particulate exposure standard of 10 mg/m³ of inspirable air should not be exceeded for airborne dust generated from this material.
- Exposure Potential** – Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.
- Re-Entry Period** - Do not enter treated areas without protective clothing until the spray has dried.

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Biological Limit Values: No biological limit values set.

Engineering Controls: No special requirements. Product is used outdoors.

Personal Protective Equipment (PPE): Avoid contact with eyes and skin. Do not inhale dust or spray mist. If product or spray gets on skin immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige powder

Odour: Non-specific

pH: No data available

Vapour Pressure: No data available. Non-volatile.

Vapour Density: No data available

Boiling Point: Not applicable

Freezing / Melting Point: Not applicable

Solubility: Suspensible

Density: 0.2 - 0.3 g/cm₃

Flash Point: Non-flammable

Flammability (explosive) Limits: Non-flammable

Auto-Ignition Temperature: Non-flammable

Octanol/Water Partition Coefficient: No data available

Particle Size: No data available

10. STABILITY AND REACTIVITY

Chemical Stability: Non-flammable.
Non-explosive.

Conditions to Avoid: Place away from fertilisers, feed and food.

Incompatible Materials: None known

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Hazardous Decomposition Products: None known

Hazardous Reactions: None known

11. TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

- Ingestion:** LOW TOXICITY
Tests on rats indicate a low toxicity following single doses of undiluted product.
(LD₅₀ = 9510 mg/kg)
- Dermal Absorption:** LOW TOXICITY
Tests on rats indicate a low toxicity due to skin contact with undiluted product.
- Inhalation:** LOW TOXICITY
Tests on rats indicate a low toxicity due to inhalation of undiluted product.
(LC₅₀ (4 h) = > 3000 mg/m³)
- Irritation:** *Eye:* SLIGHT IRRITANT
Skin: SLIGHT IRRITANT
(based on studies with rabbits using the active constituent)
- Sensitisation:** NOT A SENSITISER
(based on studies with guinea pigs using the active constituent)
- Poisoning Symptoms:** No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.
- Chronic:** **Furalaxyl technical** has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. Oral administration for 13 weeks to rats and dogs did not reveal any significant compound-related haematological or histopathological effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product is slightly toxic to fish and practically non-toxic to birds and bees.

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Persistence and Degradability: No data available

Mobility: No data available

Environmental Fate: No data available

Bioaccumulative Potential: No data available

Other Adverse Environmental Effects: No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of empty, used containers by:

- (a) Triple rinsing with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and their roots, and watercourses. On-site disposal of undiluted product is unacceptable.
- (b) Breaking, crushing or puncturing the container to prevent reuse.
- (c) Disposing of in a local authority landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50 cm of soil at a licensed/approved disposal site. DO NOT burn empty containers or product.

Special Precautions for Landfill or Incineration: Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: None allocated
Not classified as a Dangerous Good

UN Proper Shipping Name: None allocated

Class and Subsidiary Risk: None allocated

Packing Group: None allocated

Special Precautions for User: None

Hazchem Code: None allocated

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15. REGULATORY INFORMATION

SUSDP: Schedule 5

APVMA: Registered according to the Agricultural and Veterinary Chemicals Act 1988.
APVMA Product No 48193.

16. OTHER INFORMATION

Date of Preparation or Revision: Replaces February 2001 edition.
Reason for update: Conversion to 16 heading format for MSDS Code of Practice, 2nd Edition.

Data Sources: Manufacturer product safety data and published data

Abbreviations and Acronyms: APVMA – Australian Pesticides and Veterinary Medicines Authority
NOHSC – National Occupational Health and Safety Commission
SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons

Trademark Information: ® Fongarid is a Registered Trademark of a Syngenta Group Company, Basel, Switzerland.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS