

# MATERIAL SAFETY DATA SHEET

## Folimat Garden Insecticide

Date of Issue: October 22, 2002

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Product name:** Folimat Garden Insecticide  
**Other names:** None  
**Product code:** 22407  
**Chemical Group:** Organophosphate  
**Recommended use:** Garden insecticide for the control of insect pests as specified on the product label.  
**Supplier:** Bayer CropScience Pty Ltd ABN 87 000 226 022  
**Address:** 391 - 393 Tooronga Road, East Hawthorn  
Victoria 3123, Australia  
**Telephone:** (03) 9248 6888  
**Facsimile:** (03) 9248 6800  
**Website:** [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
**Contact:** Technical Manager (03) 9248 6888  
**Emergency Telephone Number:** 1800 033 111 – Orica SH&E Shared Services

### 2. HAZARDS IDENTIFICATION

#### NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Will irritate eyes and skin. Highly flammable.

**Hazard designation:** Not classified as hazardous according to criteria of Worksafe Australia  
**Risk phrases:** Not applicable  
**Safety phrases:** Not applicable  
**ADG classification:** Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**SUSDP classification:** Schedule 5 (Standard for the Uniform Scheduling of Drugs and Poisons)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Omethoate	[1113-02-6]	2
Ethanol	[64-17-5]	High
Propane/butane	-	High

Proportion (% weight/weight): High = 30-60%

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## Folimat Garden Insecticide

Date of Issue: October 22, 2002

---

### 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.**

- Inhalation:** Remove patient to fresh air. Keep warm and rested.
- Skin contact:** If sprayed on skin wash thoroughly.
- Eye contact:** Irrigate eyes immediately with water for 15 minutes.
- Ingestion:** If sprayed in mouth give milk or water.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** Mild: headache, blurred vision, weakness, giddiness, sweating, mild chest pain, nausea and vomiting.  
Severe: cyanosis, muscular twitching, spasms, miosis and respiratory paralysis.  
These symptoms commence from one to three hours after excessive exposure.
- Medical attention:** Apply basic aid and decontamination procedures. Treat symptoms and if necessary apply artificial respiration and administer antidote.  
Antidote: Atropine sulfate at 5-10 minute intervals until dryness of the mouth occurs. This will relieve the muscarinic manifestations. Atropine should not be given to a cyanosed patient. In cases of severe poisoning (respiratory depression or muscle twitching) administer pralidoxime (preferably less than 48 hours after exposure) to relieve the nicotinic effects.  
Contraindications: Never give patient morphine, theophylline or theophylline-ethylenediamine. Large amounts of intravenous fluids are generally contraindicated because of the threat of pulmonary oedema.

### 5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water fog (if unavailable fine water spray may be used)
- Hazards from combustion products:** If involved in a fire: oxides of nitrogen, phosphorus pentoxide.
- Precautions for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Should can develop a leak, place outside in the open away from naked flame until the leak stops and can is empty.

# MATERIAL SAFETY DATA SHEET

## Folimat Garden Insecticide

Date of Issue: October 22, 2002

---

### 7. HANDLING AND STORAGE

**Handling:** Keep out of reach of children.

**Storage:** Store in a dry, well ventilated area as cool as possible. Do not store in direct sunlight as contents are under pressure.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:** NOHSC exposure standards have not been assigned for the active ingredient in the formulation.  
Butane: TWA (mg/cubic metre) STEL (mg/cubic metre)  
1900  
This exposure standard is for an eight hour day. Use of this product in the home garden is for short periods only and, moreover, the level of exposure would be unlikely to reach this level.

**Engineering controls:** Not applicable.

**Personal Protective Equipment:** Personal Protective Measures:  
Avoid contact with eyes and skin. Do not inhale spray mist or vapour.  
Personal Protective Equipment: none required  
Industrial Hygiene:  
Do not spray directly on humans, exposed food, food utensils or food preparation areas.  
After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Aerosol  
**Odour:** Typical mercaptan odour of the active constituent  
**Vapour pressure:**  $3.3 \times 10^{-5}$  hPa at 20° C (omethoate)  
**Vapour density:** Not available  
**Boiling point:** Not available  
**Freezing/melting point:** Not available  
**Solubility:** Not available

**Density:** 0.65 kg/L  
**pH:** Not available  
**Flash Point:** Not available  
**Flammability (explosive) limits:** Not applicable  
**Auto-ignition temperature:** 332° C (omethoate)  
**Octanol/water partition coefficient:** Omethoate:  $\log P_{ow} = -0.74$   
**Formulation:** Aerosol

# MATERIAL SAFETY DATA SHEET

## Folimat Garden Insecticide

Date of Issue: October 22, 2002

---

### 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Hazardous polymerisation:</b>	Hazardous polymerisation will not occur.
<b>Conditions to avoid:</b>	Not available
<b>Incompatible materials:</b>	Not available
<b>Hazardous decomposition products:</b>	If involved in a fire: oxides of nitrogen, phosphorus pentoxide.

### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	Product is harmful if inhaled.
<b>Skin contact:</b>	Harmful if in contact with skin
<b>Eye contact:</b>	Will irritate the eyes.
<b>Ingestion:</b>	Not available
<b>Other:</b>	None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

#### ANIMAL TOXICITY DATA – INDIVIDUAL INGREDIENTS:

##### Acute:

<b>Oral toxicity:</b>	LD <sub>50</sub> rat: 25-50 mg/kg, i.e. toxic
<b>Dermal toxicity:</b>	LD <sub>50</sub> rat: 700 mg/kg, i.e. harmful
<b>Inhalation toxicity:</b>	LC <sub>50</sub> (4 h) rat: 0.3 mg/L (as aerosol)
<b>Skin irritation:</b>	Not available
<b>Eye irritation:</b>	Not available
<b>Sensitisation:</b>	Omethoate is a skin sensitiser

# MATERIAL SAFETY DATA SHEET

## Folimat Garden Insecticide

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---

### Chronic:

Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. The main health effects from repeated exposure would be toxic symptoms of cholinesterase inhibition as described above. Animal studies with omethoate have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential.

## 12. ECOLOGICAL INFORMATION

Do NOT allow chemical, container or spray to get into drains, sewers, streams or ponds.  
Do NOT spray if bees are feeding on flowering plants. Will kill bees. Cover fish tanks and remove caged birds and pets from treatment area before using.

### **Ecotoxicity:**

#### Omethoate:

##### *Fish toxicity:*

LC<sub>50</sub>: 30 mg/L (96 h); golden orfe (*Leuciscus idus melanotus*)

LC<sub>50</sub>: 9.1 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

##### *Aquatic invertebrate toxicity:*

EC<sub>50</sub>: 0.022 mg/L (48 h); *Daphnia magna*

##### *Algae toxicity:*

IC<sub>50</sub>: 167.5 mg/L (72 h); green algae (*Scenedesmus subspicatus*)

##### *Bird toxicity:*

LD<sub>50</sub>: 79.7 mg/kg; male Japanese quail

LD<sub>50</sub>: 83.4 mg/kg; female Japanese quail

### **Environmental fate, persistence and degradation:**

Omethoate has a relatively high mobility in soil but is very rapidly metabolised.  
DT<sub>50</sub>: only a few days. The main metabolite is CO<sub>2</sub>. Aged leaching studies revealed that metabolites have only a low leaching potential.

## 13. DISPOSAL CONSIDERATIONS

Aerosol can should be completely empty before disposal. Place used can in household rubbish. Do not puncture or incinerate can.

## 14. TRANSPORT INFORMATION

**UN number:** 1950  
**Proper shipping name:** AEROSOLS  
**Class and Subsidiary Risk:** 2  
**Packing Group:** None  
**EPG:** 2D1  
**Hazchem code:** 2Y

## 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

National Registration Authority Approval Number: 33051

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Date of Issue: October 22, 2002

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### 16. OTHER INFORMATION

**Trademark information:** Folimat® is a Registered Trademark of Bayer.

**Preparation information:** Replaces April 13, 1999 edition.  
Reason for update: Conversion to 16 heading format.

**Data sources:** Bayer CropScience Pty Ltd product safety data and published data

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