

Material Safety Data Sheet

A09297/03

Product Name FOLIDOL M500 INSECTICIDE SPRAY

Statement of Hazardous Nature

Hazardous according to criteria of the National Occupational Health and Safety Commission

Company Address: Bayer Australia Limited Emergency Phone 1800 033 111
 875 Pacific Highway (24 Hrs Toll Free)
 PYMBLE NSW 2073 Phone (02) 9391-6000

Identification

Product Name FOLIDOL M500 INSECTICIDE SPRAY

Issued 1/4/1998	Supersedes		
UN No 3017	Hazardous? Yes	Hazchem 3W	
DG Class 6.1	Poison Schedule S7	Prod. Code 67444	
Sub Risk 3	Packing Group II	EPG No 6C1	

Uses Agricultural insecticide for the control of insect pests as specified on the product label.

Product Descriptor: FOLIDOL M500

Proper Shipping Name:
 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (parathion methyl)

Chemical Characterisation: 500 g/L parathion methyl
 0,0-diethyl-0-4-nitro-phenyl-phosphorothioate

Chemical Group: organophosphate

Physical Description/Properties

Form: liquid (emulsifiable concentrate)
 Colour: clear brownish
 Odour: aromatic
 Change in Physical State:
 boiling point: 139 degrees C
 Density : approx. 1.07 g/cu. cm at 20 degrees C
 Vapour Pressure: 1.29 X 10Exp-5 mbar at 20 degrees C (pure active ingredient)
 Viscosity: not established
 Solubility in Water: approx. 0.055 g/L at 20 degrees C
 (figures quoted are for the active ingredient)
 pH Value (10% in water): not established
 Flash Point (closed cup): 26 degrees C

Ingredients

Chemical	CAS No.	Proportion
Parathion-methyl	298-00-0	500 g/L
N-Butanol	71-36-3	Low
Xylene	1330-20-7	Med

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Ingredients**Chemical****CAS No.****Proportion**

Emulsifiers

Low

Proportion (% weight/weight): Low = 1-9%; Med = 10-29%

Health Hazards**Health Effects**

No adverse effects are expected if this product is used in accordance with the label. Most cases of organophosphate poisoning result from skin absorption due to inadequate protection during pouring/mixing or application. Organophosphates act by inhibiting acetylcholinesterase. Some symptoms of overexposure that can arise if the product is mishandled are:

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.

Acute: very dangerous, particularly the concentrate

Chronic: Animal studies show no evidence of oncogenic effect or carcinogenic or teratogenic potential.

Swallowed

Ingestion of the product may be fatal.

Skin

The xylene component may cause irritation.

Eye

The xylene component may cause irritation.

Inhaled

Inhalation can lead to poisoning.

First Aid

If poisoning occurs, contact a doctor or Poisons Information Centre.

Swallowed

If swallowed, induce vomiting preferably using Ipecac Syrup APF and give one atropine tablet every 15 minutes until dryness of the mouth occurs.

Eye

If in eyes, hold eyes open and flood with water for at least 15 minutes and see a doctor.

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Health Hazards

(Continued)

Advice to Doctor

Apply basic aid and decontamination procedures. Treat symptomatically 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.

Precautions for Use

Exposure Standards

NOHSC exposure standards have not been assigned for the active ingredient.
Xylene TWA 350 mg/cubic metre

Engineering Controls

Not applicable.

Personal Protection

Personal Protective Measures:

Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes, skin and clothing. Do not inhale spray mist. Obtain an emergency supply of atropine tablets 0.6 mg.

Personal Protective Equipment:

When opening the container, preparing the spray and using the prepared spray, wear waterproof clothing, cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves, impervious footwear and full face respirator with combined dust and gas cartridge (canister).

Industrial Hygiene:

If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing and protective equipment with detergent and water.

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Precautions for Use

(Continued)

Flammability

Protection Against Fire:

Product is stable. Avoid strong oxidising agents. Not flammable under normal conditions of use.

Safe Handling Information

Storage

Keep out of reach of children. Store in the tightly closed original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Do not store near any material intended for use or consumption by humans or animals.

Transport

Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

Shipping name:

ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (parathion methyl)

Packing group: II UN No: 3017

DG Class: 6.1 Sub Risk: 3 Hazchem: 3W

Dangerous Goods / Hazardous Substances Regulation

This product is subject to the following regulations:

- Australian Code for the Transport of Dangerous Goods by Road and Rail
- State/Territory Storage of Dangerous Goods Regulations
- State/Territory Hazardous Substances Regulations
- Standard for the Uniform Scheduling of Drugs and Poisons

Spills

Observe all precautions for use including use of rubber boots or rubber overshoes, when cleaning up spills. Alert and evacuate all personnel from the immediate area. Prevent spill from spreading or entering waterways or drains. Take up with absorbent material such as sawdust, peat or chemical binding agent. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in a sealable drum. Spread hydrated lime over the affected area. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during clean-up operation.

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Safe Handling Information

(Continued)

Disposal

1) After intended use:

Triple or (preferably) pressure rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Break, puncture, crush and bury rinsed container in a local authority landfill (check local statutory requirements). If not available, bury the container below 500 mm in a marked disposal pit specifically set up for this purpose, clear of waterways, vegetation and roots. Empty container and product should not be burnt.

2) After spill or accident:

Dispose of sealed containers at an approved local waste disposal site.

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products:

Thermal Decomposition: does not occur

Hazardous Decomposition Products: not established

Hazardous reactions: hazardous polymerization does not occur.

Extinguishing Media:

water fog (if unavailable fine water spray may be used)

Further Information:

Special firefighting procedures: Wear full protective clothing and self-contained breathing apparatus.

Other Information

Information on Toxicity

LD50 oral (ingestion) - rat: 13 mg/kg (Bayer) i.e. very toxic

LD50 dermal (skin contact) - rat: 100 mg/kg (Bayer) i.e. toxic

LC50 inhalation (breathing) - rat: 0.12 mg/L (active ingredient) (Bayer) i.e. very toxic

Information on Ecological Effects

Dangerous to bees. Do NOT spray any plants in flower while bees are foraging. Do NOT contaminate ponds, waterways and drains with the chemical or used container.

Fish toxicity (active ingredient):

LC50: 7.5 mg/L (48 h): Carp (*Cyprinus carpio*)

LC50: 10 mg/L (48 h): (*Cyprinus auratus*)

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Contact Point (for non-emergency calls)

Product safety coordinator of Business Group: Crop Protection

Telephone Number: (02) 9391-6000

DISCLAIMER

This Material Safety Data Sheet has been developed according to the WORKSAFE/NOHSC Code of Practice.

The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof.

The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.

Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product").

The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product.

The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with relevant Federal, State and Local Government regulations.