

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Folidol[®] 450 CS

INSECTICIDE

Active Constituent: 450 g/L PARATHION-METHYL
(an anticholinesterase compound)

GROUP 1B INSECTICIDE

A micro encapsulated formulation for control of a variety of pests of cotton, citrus, pome and stone fruit and grapevines as specified in the DIRECTIONS FOR USE table

GENERAL INSTRUCTIONS

Insecticide Resistance Warning

For insecticide resistance management, Folidol 450 CS is a Group **1B** insecticide. Some naturally occurring insect biotypes resistant to Folidol 450 CS and other Group **1B** insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Folidol 450 CS and other Group **1B** insecticides are used repeatedly. The effectiveness of Folidol 450 CS on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Folidol 450 CS to control resistant insects. Folidol 450 CS may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer CropScience representative or local agricultural department agronomist.

Pest Monitoring

Folidol 450 CS should only be applied if monitoring indicates that pest population exceeds thresholds.

Export of Treated Produce

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with Folidol 450 CS. If you are growing edible produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances before using Folidol 450 CS.

Mixing

Folidol 450 CS is a viscous liquid. Shake well before use. Measure out required quantity of product and mix in a small quantity of water in a bucket or pail. Add to partially filled spray tank with agitator going. Fill tank and agitate to ensure thorough mixing and use immediately. Continue agitation during application. Refer also to '**Compatibility**' when mixing with other products.

Compatibility

DO NOT tank mix Folidol 450 CS with other anticholinesterase products.

Folidol 450 CS is compatible with most Bayer CropScience insecticides and fungicides and may be mixed with Bordeaux mixture and lime sulphur if desired, provided it is used immediately after preparation. Do not mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of Bayer CropScience Pty Ltd, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, Bayer CropScience cannot be responsible for the behaviour of such mixtures.

Mixtures of Folidol 450 CS with emulsifiable concentrates, organic solvents, crop oils or some surfactants may cause increased toxicity and shorten residual efficacy. This effect is more pronounced with high concentrate sprays and extended periods between mixing and application.

Application

DO NOT apply by air.

Ground application

Only apply Folidol 450 CS by airblast, electrostatic and boom spraying.

It is highly desirable that closed mixing/loading systems are in place and enclosed cabs are used. It is preferable that enclosed cabs are equipped with air conditioning and pesticide filters.

Special Instructions for Tree and Vine Crops**Dilute Spraying**

- ◆ Use a sprayer designed to apply high spray volumes, up to the point of run-off and matched to the crop being sprayed.
- ◆ Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient spray volume to cover the crop to the point of run-off. Avoid excessive run-off.
- ◆ The required spray volume to achieve point of run-off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other expert advice.
- ◆ Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.
- ◆ The required dilute spray volume to achieve point of run-off will change and the sprayer set up and operation may also need to be changed, as the crop grows.

Concentrate Spraying

- ◆ Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies spray volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- ◆ Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen spray volume.
- ◆ Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- ◆ The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

 1. Dilute spray volume as determined above: For example 1500 L/ha
 2. Your chosen concentrate spray volume: For example 500 L/ha
 3. The concentration factor in this example is: 3 X (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
 4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL of product per 100 L water for concentrate spraying.
- ◆ The chosen spray volume, amount of product per 100 L of water, and the sprayer set and operation may need to be changed as the crop grows.
- ◆ Do not use a concentrate rate higher than that specified in the **CRITICAL COMMENTS**.
- ◆ For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Cleaning

Do not allow Folidol 450 CS to dry in application equipment before cleaning.

PRECAUTIONS**Re-entry Period**

DO NOT allow re-entry into treated areas for 5 days after treatment. If bug checking or exceptional circumstances require prior entry, limit duration of entry and wear cotton overalls buttoned to the neck and wrist or long trousers and long sleeved shirt, and chemical resistant gloves. Clothing must be laundered after each day's use.

Hand Weeders

DO NOT allow re-entry into treated areas for 5 days after treatment. After this period, wear shoes or boots, long trousers, long sleeved shirt, gloves and hat.

PROTECTION OF LIVESTOCK

Dangerous to bees.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways and drains with the chemical or used container.

DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray to drift onto natural streams, rivers or waterways.

DO NOT apply by air.

Folidol 450 CS is highly toxic to aquatic organisms and all efforts should be taken to minimise spray drift.

DO NOT spray any plants in flower, including ground covers, while bees are present. Should spray drift occur, bees may be at risk several hundred metres downwind depending on atmospheric conditions.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Store below 30°C. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse container before disposal or recycling. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. May irritate the eyes and skin. 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. When opening the container, preparing the spray and using the prepared spray wear protective waterproof clothing, cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves, impervious footwear and full facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product, or wet with spray, remove clothing immediately. If product 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. After each day's use wash gloves, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26). If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs. If poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which can be obtained from www.bayercropscience.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

Folidol® is a registered trademark of Bayer

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FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111
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DIRECTIONS FOR USE**Restraints**

DO NOT apply by hand held equipment

DO NOT apply in greenhouses

TREE AND VINE CROPS

RATE				CRITICAL COMMENTS
CROP	PEST	STATE	RATE	
In the following table, all rates given are for dilute spraying. For concentrate spraying, refer to the Special Instructions for Tree and Vine Crops section.				For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Refer to the Special Instructions for Tree and Vine Crops section. For concentrate spraying do not apply at concentrations greater than 5X.
Citrus mandarins (not in NSW, ACT), oranges, lemons, grapefruit	Black citrus aphid	All states	20 mL/100 L	
	Various scale insects	NSW, ACT, Vic, SA, WA only	80 or 110 mL/ 100 L	Apply at first sign of pest. Apply at intervals of not less than 3 weeks. Use low rate for control of crawlers. Use high rate (plus 1 L white oil/100 L spray mix) for control of adult scales. Apply at intervals of not less than 3 weeks.
Pome fruit, Stone fruit	Mealybug	NSW, ACT only	70 mL/100 L	Apply at first sign of pest. Repeat as necessary throughout the season. Apply at intervals of not less than 3 weeks.
	Woolly aphid	NSW, ACT, Vic, Tas, SA, WA only	70 mL/100 L	Apply at first sign of pest. Apply at intervals of not less than 3 weeks.
	Other aphids, jassids, mites		45 mL/100 L	
	Codling moth, lightbrown apple moth, oriental fruit moth		70 mL/100 L	Apply as normal cover sprays. Apply at intervals of not less than 3 weeks. Fortnightly sprays may be required in warm areas.
	Oyster scale	NSW, ACT, Vic, SA, WA only	110 mL/100 L	Apply in late dormant period up to green tip or late budswell. Add 3 L winter oil/100 L spray mix. Apply at intervals of not less than 3 weeks.
San Jose scale				
Grapevines	Mealybug	NSW, ACT, Vic, SA, TAS, WA only	70 mL/100 L	Thorough spraying is essential. Apply at intervals of not less than 3 weeks.

OTHER CROPS

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Cotton ground application only	Aphids, loopers	Qld, NSW only	780 mL - 1.6 L/ha	Apply at first sign of pests. Repeat as necessary. Use low rate on light infestations and open crops. Ensure thorough coverage. DO NOT use on a program basis. Apply to larvae less than 10 mm in length. DO NOT use on a program basis.
	Cluster caterpillar		750 mL - 1.2 L/ha	
	<i>Helicoverpa</i> larvae (<i>H. punctigera</i> , <i>H. armigera</i>)		1.6 - 3.1 L/ha	

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS**Harvest****DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION****Grazing****DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER APPLICATION****Cotton: DO NOT ALLOW STOCK TO GRAZE TREATED CROPS**