

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

**Larvin<sup>®</sup> 800 WG**

**INSECTICIDE**

**Active Constituent: 800 g/kg THIODICARB**  
**(an anti-cholinesterase compound)**

<b>GROUP</b>	<b>1A</b>	<b>INSECTICIDE</b>
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**For the control of caterpillar pests in brassicas, cotton, maize, sweetcorn,  
 pulses, tomatoes and tobacco**

### GENERAL INSTRUCTIONS

This product is a water dispersible granule formulation that readily disperses in water for spraying by ground or air equipment. It is unstable under highly acidic or highly alkaline conditions, being hydrolytically sensitive to degradation of the active constituent by strong acids, strong bases and certain heavy metals and salts.

To improve rainfastness, add a commercially available 'sticker' to the spray-tank, at the recommended rate, before applying this product.

### Insecticide Resistance Warning

For insecticide resistance management, Larvin 800 WG Insecticide is a Group **1A** insecticide. Some naturally occurring insect biotypes resistant to Larvin 800 WG and other Group **1A** insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Larvin 800 WG or other Group **1A** insecticides are used repeatedly. The effectiveness of Larvin 800 WG 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 Larvin 800 WG to control resistant insects. Larvin 800 WG may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer CropScience representative or local agricultural department agronomist.

### Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Larvin 800 WG Insecticide. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Larvin 800 WG Insecticide.

### Mixing

Remove oil, rust, scale, pesticide residues and other foreign matter from sprayer and strainer. Flush with clean water. Use 50 mesh or slotted strainer in spray system. Fill tank approximately half full of water, add this product and mix thoroughly by mechanical or hydraulic action. Add water to desired volume and thoroughly mix again.

### Application

This product may be applied by air or ground equipment. Use a minimum prepared spray volume of 20 L/ha by air (30 L/ha for cotton, 50 L/ha for maize or sweetcorn) and 50 L/ha by ground. A droplet density of a minimum 60 droplets per cm<sup>2</sup> must be attained. There needs to be some air movement, which preferably should be blowing across the flight path. After use, drain and flush sprayer with water.

### Compatibility

Larvin 800 WG may be mixed with DiPel<sup>®</sup> ES, Delfin<sup>®</sup> WG, most foliar Bt formulations, Thiodan<sup>®</sup> EC, Folidol<sup>®</sup> M500, Marlin<sup>®</sup> 225, Folimat<sup>®</sup> and most EC formulations of profenofos, chlorothalonil and dimethoate. Larvin 800 WG is physically compatible with Intrepid<sup>®</sup> and Reign<sup>®</sup>. However, before preparing tank mix combinations, it is advisable to mix a small amount of Larvin 800 WG with an equal volume of water in a small container and add the other pesticide. Any mixture which curdles, precipitates or greases should not be used. Larvin 800 WG is NOT compatible with manganese, zinc or copper based products, with Decis Options<sup>®</sup>, with LV, ULV or other oil based formulations, or with vegetable oil diluents. As the formulations of other manufacturers' products are beyond the control of Bayer CropScience, all mixtures should be tested prior to mixing commercial quantities.

### PRECAUTIONS

DO NOT allow children access to treated areas. When the product is being applied, human flaggers/markers must be protected by engineering controls such as vehicles with cabs.

### Re-entry Period

Do not allow entry into treated areas for 1 day after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat, chemical resistant gloves and impervious footwear. Clothing must be laundered after each day's use.

**DRIFT WARNING**

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent crops, crop lands, pastures or livestock.

**PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT AND OTHERS**

Dangerous to fish and aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area. Do not store for long periods in direct sunlight.

**Carton**

Single rinse bag before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on-site. 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.

**Bottle**

Triple or preferably pressure rinse containers before disposal. 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**

Poisonous if absorbed by skin contact, inhaled or swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or 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 cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves, face shield, impervious footwear and half facepiece respirator with combined dust and gas cartridge. 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, face shield, respirator and contaminated clothing. Wash rubber respirator with detergent and warm water.

**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](http://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.

Decis Options<sup>®</sup>, Folidol<sup>®</sup>, Folimat<sup>®</sup>, Larvin<sup>®</sup>, Marlin<sup>®</sup>, Reign<sup>®</sup> and Thiodan<sup>®</sup> are Registered Trademarks of Bayer.

NRA Approval No.: 48522/0902



<b>CARBAMATE PESTICIDE, SOLID, TOXIC (contains thiodicarb)</b>		
<b>UN 2757</b>	<b>PG II</b>	<b>HAZCHEM 2X</b>
IN A TRANSPORT EMERGENCY <b>DIAL 000</b> POLICE OR FIRE BRIGADE		
FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111		

**DIRECTIONS FOR USE****Restrains**

DO NOT add Larvin 800 WG to water with a pH below 3.0 or above 8.5.

DO NOT store prepared spray mixture for longer than 6 hours.

CROP	PEST	STATE	RATE	WHP (Days)	CRITICAL COMMENTS
Brassica crops	Cabbage Cluster Caterpillar ( <i>Crociodolomia pavonana</i> ) Cabbage White Butterfly ( <i>Pieris rapae</i> )	All states	470 to 940 g/ha	7 (H) 21 (G)	Spray as required depending upon pest pressure. Closely monitor pest populations. Use the lower rate for small caterpillars and the higher rate for advanced caterpillars. Add a non-ionic wetting agent at the recommended rates.
Cotton	Heliothis (Budworms) ( <i>Helicoverpa</i> spp.)	Qld, NSW, WA, NT only	940 g or 1.2 kg/ha  235 g to 470 g/ha PLUS the registered rate of a compatible larvicide	21 (H & G)	This product has ovicidal and larvicidal activity. <b>Ovicidal and Larvicidal Rate:</b> Application should be made on eggs, very small or small larvae only. The most effective timing is on egg hatch. Use the lower rate on light to moderate infestations, and the higher rate on heavier infestations. Closely monitor pest populations after application. Repeat application as needed to maintain control. Ensure thorough coverage of target areas. Larvae must feed on treated area in order to achieve effective control. Larger larvae and larvae feeding within bolls and squares may not be controlled.  <b>Ovicidal Rate: Ovicidal rates of Larvin 800 WG should only be used in a tank mix with the registered rate of a compatible larvicide.</b> Time application on egg threshold levels prior to hatching and closely monitor the population. Use the lower rate of Larvin 800 WG where egg pressure is less than 3 eggs per terminal. Use the higher rate of Larvin 800 WG for larger larvae up to 8 mm and under higher egg pressure. Repeat application to maintain control. Ensure thorough coverage of target areas.
Maize, Sweetcorn	Heliothis ( <i>Helicoverpa armigera</i> )	Qld, NSW, Vic, WA, Tas only	700 to 940g/ha	Maize 7 (H & G)  Sweetcorn 7 (H) 21 (G)	Closely monitor pest populations during tasselling-silking. If high numbers of medium to large caterpillars are in the tassels, spray at tassel emergence. Egg-laying is heaviest during green silk formation. Time applications to coincide with egg hatching. Ensure thorough coverage of target areas.
Pulses e.g. Navy beans, soybeans, mungbeans, pigeon peas, chickpeas	Heliothis (Budworms) ( <i>Helicoverpa</i> spp.)	All states	235 or 350 g/ha	21 (H & G)	Time application to coincide with egg hatching and closely monitor pest populations. Use the lower dose rate on eggs and very small larvae (up to 3 mm) and light to moderate infestations; and the higher rate on small larvae (up to 7 mm) and heavier infestations. Repeat application as needed to maintain control. Ensure thorough coverage of target areas.

CROP	PEST	STATE	RATE	WHP (Days)	CRITICAL COMMENTS
Tomatoes	Heliothis (Budworms) ( <i>Helicoverpa</i> spp.)	All states	<u>Low Volume:</u> 655 g/ha	1 (H) 21 (G)	Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage. NOTE: Low volume is defined as 400 L or less total spray volume per hectare. High volume is defined as 1000 L or more total spray volume per hectare.
	Heliothis (Budworms) ( <i>Helicoverpa</i> spp.)  Potato Moth ( <i>Phthorimaea operculella</i> )		<u>Low Volume:</u> 233 g to 655 g/ha Larvin 800WG <b>PLUS</b> 500 g to 1.0 kg Delfin® WG (or other compatible registered Bt product) per ha  <u>High Volume:</u> 23 g to 46 g Larvin 800 WG <b>PLUS</b> 50 to 100 g Delfin WG (or other compatible registered Bt product) per 100 L water		Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage. NOTE: Low volume is defined as 400 L or less total spray volume per hectare. High volume is defined as 1000 L or more total spray volume per hectare. The lower rates of Larvin 800 WG in mixtures with Bt provide ovicidal control only. Use higher rates of Larvin 800 WG when larval control is required. Use the higher rate of Delfin WG when Potato Moth is present.
Tobacco	Heliothis (Budworms) ( <i>Helicoverpa</i> spp.)  Tobacco loopers ( <i>Chrysodeixis</i> spp.)	Qld, NSW, Vic, WA only	33 g/100 L water	Nil (H) 21 (G)	Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage.

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

**DO NOT USE IN THE HOME GARDEN.**

**WITHHOLDING PERIODS (WHP):**

**(H) = Harvest**

Brassica, Maize, Sweetcorn: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**  
 Cotton and Dried Pulses: **DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.**  
 Tomatoes: **DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**  
 Tobacco: **NOT REQUIRED WHEN USED AS DIRECTED.**

**(G) = Grazing**

All Crops except Maize: **DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.**  
 Maize: **DO NOT GRAZE OR CUT FOR STOCK FEED FOR 7 DAYS AFTER APPLICATION.**