

POISON

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

ChemAg
BIFEN 80SC
INSECTICIDE/MITICIDE

ACTIVE CONSTITUENT: 80g/L BIFENTHRIN

GROUP 3A INSECTICIDE

For the control of Apple dimpling bug and Plague thrips in Apples, Scab moth and Flower thrips in Bananas, Two spotted mites in Pears, and several pests in Ornamentals as listed in the Directions for Use Table.

**IMPORTANT: READ THE LEAFLET
BEFORE OPENING OR USING**

APVMA Approval No. 59592/0406

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DIRECTIONS FOR USE**RESTRAINTS:**

DO NOT use in situations or orchards where predatory mites are established and providing effective mite control.

DO NOT apply by aircraft.

DO NOT apply if rainfall is expected before spray deposits dry on leaf surfaces.

Crop	Pest	State	Rate	Withholding Period	Critical Comments
Apples	Apple dimpling bug (<i>Campylomma liebknechti</i>) Plague thrips (<i>Thrips imagines</i>)	Qld, NSW, Vic, SA & WA only	10mL or 20 mL/ 100L	-	Apply when pest numbers reach accepted threshold levels. Applications should be made as early as possible during the blossoming period and early in the morning when bees are not actively foraging. Use the high rate for both knockdown and residual control. Only one application at this rate should be required per season. In orchards where appropriate crop monitoring facilities are available, the low rate may be used for knockdown control only. When this low rate is used, a second application at the low rate may be required to control re-infestation. Spray to run-off using a total spray volume of 1000 to 2500 L/ha, depending on tree size.
Bananas	Banana scab moth (<i>Nacoleia ostasema</i>)	Qld only	250mL / 100L	-	Apply 40mL of prepared spray to each banana bell. Use a suitable bell injection instrument to inject the required volume directly into the bell as it emerges from the throat of the banana plant while in the upright position. The correct site for injection is in the top half to one third of the bell just below the distinct swelling where the male flower mass ends and the female flower cavity (bottom hand of fruit) start.

DIRECTIONS FOR USE...continued...

Crop	Pest	State	Rate	Withholding Period	Critical Comments
Bananas	Flower thrips (<i>thrips florum</i>)	Qld & NSW only	250mL /100L	-	Keep injection equipment clean and use lubricants sparingly. Monitor for thrips actively and treat only when thrips are active.
Pears	Two spotted mite (<i>Tetranychus urticae</i>) Pear looper Longtailed mealy bug (crawlers) Lightbrown apple moth Coding moth	Vic only	50mL /100L	14 days	Monitor the mite population from mid December onwards. Apply Chemag Bifen 80SC before the mite population reaches economic damage levels (ie around 20-30 motiles/25 leaves). A follow up treatment may be required 3 to 4 weeks later. If more than 2 miticide applications are required use an alternative rotational miticide. Spray to run off using a total spray volume of 2000 – 4000L/ha depending on the tree size. Note: When using Chemag Bifen 80SC in pears, it is not necessary to tank-mix additional insecticides for control of Codling moth and Lightbrown apple moth. Pear Looper and Longtailed mealy bug crawlers.
Roses, carnations and Ornamental plants	Thrips (<i>Thrips simplex</i> and <i>T.hawaiiensis</i>) Two spotted mite (<i>Tetranychus urticae</i>) Aphids, Lightbrown apple moth Poinsettia white fly (<i>Bemisia tabaci</i>) BiotypeB	All states	50mL/100L 35 or 50 mL/100L 25mL/100L	–	Apply at the first sign of pest infestation and before pest population build up to damaging levels. Repeat as necessary on a 10 - 14 day interval. Best results are obtained from preventative rather than curative applications. Where indicated, use the higher dosage for knockdown of established pest infestations or when longer residual activity is required. Spray to run off using a total spray volume of 1000-1500L/ha.

SITUATION	PEST	RATE	CRITICAL COMMENTS
Turf (For example lawns, commercial turf farms, parks, recreational areas, bowling greens, sports fields)	Lawn armyworm [<i>Spodoptera mauritia</i>] Sod webworm [<i>Herpetogramma</i> <i>Licarsisalis</i>] Cutworm [<i>Agrotis sp</i>]	1.5L/ha (15mL/100m ²)	Mix Chemag Bifen 80SC in water and apply evenly over the area to be treated using spray application equipment. Use a minimum total volume of at least 200L/ha [2L/100m ²]. To ensure optimum control, irrigate the treated area with up to 4mm of water soon after application. Inspect treated areas for continuing activity. Reapply as required. Where a rate range is indicated use lower rates under lower insect pressure and higher rates under higher insect pressure. Apply after mowing to minimise loss of insecticide in clippings.
	Argentine stem weevil adults [<i>Listronotus bonariensis</i>]	1.5 - 3.0L/ha (15-30mL/100m ²)	
	African black beetle adults [<i>Heteronychus arator</i>]	3.0 - 4.5 L/ha (30-45mL/100m ²)	
	Billbug adults [<i>Sphenophorus sp</i>]	1.5 - 3.0L/ha (15-30mL/100m ²)	
	Black ant, Coastal brown ant, Funnel ant, Meat ant, Sugar and Stinging ant	1.5 - 5.5L/ha (15-55mL/100m ²)	Mix Bifen 80SC in water and apply over the area to be treated using spray application equipment. Apply to areas where ants are active. Where possible spray directly into the nests. Use the low rate for maintenance treatments or to control light infestations and high rate for heavy infestations and for maximum residual control. The elimination of funnel ants from a particular site will generally require more than one application. Initial applications should be broadcast over affected areas. As the initial numbers of active colonies is reduced, application should shift to targeting active mounds. Apply spray directly to the mound and in the area immediately surrounding active mounds (300mm radius).

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

WITHHOLDING PERIOD

PEARS: DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST.

GENERAL INSTRUCTIONS

Chemag Bifen 80SC is a contact and residual insecticide/miticide. It can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing pests. Best results are obtained when Chemag Bifen 80SC is applied before pest populations build up to damaging levels.

INSECTICIDE RESISTANCE WARNING

GROUP 3A INSECTICIDE

For insecticide resistance management CHEMAG BIFEN 80SC is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to CHEMAG BIFEN 80SC and other group 3A insecticide may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if CHEMAG BIFEN 80SC or other group 3A insecticides are used repeatedly. The effectiveness of CHEMAG BIFEN 80SC on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Imtrade Australia Pty Ltd. accepts no liability for any losses that may result from the failure of CHEMAG BIFEN 80SC to control resistant insects. CHEMAG BIFEN 80SC may be subject to specific resistance management strategies. For further information, contact your local supplier, Imtrade CHEMAG representatives or local agricultural department agronomist.

APPLICATION

Chemag Bifen 80SC is a suspension concentrate requiring dilution with water prior to use. Applications should be made with ground equipment calibrated to deliver a fine dilute spray in a suitable volume to ensure thorough coverage. Use suitable application equipment and preferably cone nozzle combinations to deliver appropriate spray volume and a droplet size of 150-200 microns.

DO NOT apply as a fog or mist.

MIXING

Add the required quantity of Chemag Bifen 80SC to water in the spray tank and mix thoroughly.

Maintain agitation during mixing and application.

COMPATIBILITY

Chemag Bifen 80SC is compatible with commonly used fungicides such as Mancozeb, Antracol, Chlorothalonil SC and Kocide.

SURFACTANTS

Chemag Bifen 80SC contains a surfactant. Additional surfactant may only be necessary on hard to wet plants and in high volume situations.

RE-ENTRY TO TREATED FIELDS/CROPS

Unless suitable clothing is worn (i.e. water proof hat, overalls, boots and gloves) it is advised not to re-enter field/crops until spray deposits have dried.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

Dangerous to fish and aquatic organisms.

DO NOT contaminate dams, rivers, streams, waterways or drains with product or the used container.

PROTECTION OF LIVESTOCK

Dangerous to bees.

DO NOT spray any plants in flower when bees are foraging. Spray in the night or early morning when bees are not actively foraging.

STORAGE, SPILLAGE AND DISPOSAL

Store in closed original container, in a cool, well-ventilated area away from children, animals, food and feedstuffs. DO NOT store for prolonged periods in direct sunlight. In case of spillage, confine and absorb spilled product with absorbent material such as sand, clay or cat litter. Dispose of waste as indicated below or according to the Australian Standard AS 2507- Storage and Handling of Pesticides. DO NOT allow spilled product to enter sewers, drains, creeks or any other waterways.

For 500mL, 1 L containers: Rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at 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.

For 5 L, 20 L containers: Triple or preferably pressure rinse containers before disposal. Add rinsing 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, vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Poisonous if swallowed. Will irritate the eyes. Avoid contact with eyes and skin. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre.
Phone Australia 13 11 26; New Zealand 03 4747000

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS). A Material Safety Data Sheet for CHEMAG BIFEN 80SC is available from Imtrade on request.

Call Toll free Customer Service on 1800 171 799.

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Imtrade Australia has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Imtrade Australia accepts no liability for any loss or damage arising from incorrect storage, handling or use.

UN No.2902	PESTICIDE, LIQUID, TOXIC, N.O.S (8% Bifenthrin)
In a Transport Emergency Dial 000 Police or Fire Brigade	
PG III	HAZCHEM 2X

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