

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

Belt[®] 480 SC

INSECTICIDE

Active Constituent: 480 g/L FLUBENDIAMIDE

GROUP 28 INSECTICIDE

For the control of various lepidopteran pests in vegetable crops as specified in the DIRECTIONS FOR USE table

GENERAL INSTRUCTIONS

Insecticide Resistance Warning

For insecticide resistance management Belt 480 SC Insecticide is a Group 28 insecticide. Some naturally occurring insect biotypes resistant to Belt 480 SC and other Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Belt 480 SC or other Group 28 insecticides are used repeatedly. The effectiveness of Belt 480 SC 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 Belt 480 SC to control resistant insects.

Resistance Management Strategy

Belt 480 SC may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer CropScience representative, local agricultural department agronomist or visit www.croplifeaustralia.org.au.

Mixing

Shake the container well before using. Partially fill the spray tank with clean water and add the required volume of product to the water whilst agitating. Add adjuvant if required, then top up the tank with clean water to the required volume. Belt 480 SC should be applied as soon as possible after mixing.

Adjuvants

The addition of suitable adjuvants may enhance efficacy. Use adjuvants at normal label rates. Wetters and penetrant type adjuvants have been effective with Belt 480 SC. Do not use adjuvants which may cause phytotoxicity to crops. Refer to Bayer CropScience for further information.

A suitable adjuvant, such as a non-ionic surfactant / wetting agent (e.g. Agral[®] 600) MUST be used when applying Belt 480 SC to brassica crops. Apply at normal label rates for each adjuvant (e.g. Agral at a rate of 0.01% v/v).

Application

Ground application

Thorough coverage of the crop is essential. Do not apply when conditions are unsuitable for water-based spray applications. Avoid high temperatures, strong winds, inversion conditions, imminent rain or any conditions that may reduce the quality of spray coverage or result in drift from the target area.

Apply in sufficient water, with correct nozzles and pressure, to achieve MEDIUM spray droplets as defined in ASAE S572, and using suitable application parameters (boom height, speed etc) to ensure thorough coverage of the target area. If using rates per 100 L, aim to spray plants to "point of run-off" stage, thoroughly covering all plant surfaces.

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers within 120 metres downwind of the application area.

DO NOT apply when there are livestock, pasture or any land that is producing feed for livestock within 40 metres downwind of the application area.

Application using rate per hectare

Thorough coverage of the target area is essential. Adjust water volumes according to the crop growth stage.

Application using rate per 100 L (dilute spraying)

- Use a sprayer designed to apply high volumes of water 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 water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or 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 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 3X (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
 4. If the dilute label rate is 15 mL/100 L, then the concentrate rate becomes 3×15 , which is 45 mL/100 L of concentrate spray.
- The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
 - Do not use at a concentration factor greater than 3X (e.g. at a rate higher than 45 mL/100 L where a dilute spraying rate of 15 mL/100 L is specified).
 - For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry best practice.

Aerial application

DO NOT apply with smaller than COARSE spray droplets according to the ASAE S572 definition for standard nozzles.

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers within 450 metres downwind of the application area.

DO NOT apply when there are livestock, pasture or any land that is producing feed for livestock within 350 metres downwind of the application area.

Techniques to minimise drift should be employed at all times when aerially applying sprays near sensitive areas.

Compatibility

Belt 480 SC may be mixed with the following crop protection products: Blue Shield® DF, Bayfidan® 250 EC, Confidor® 200 SC and Kocide® 350 DF. For the latest information on the compatibility of Belt 480 SC with other products, contact your local Bayer CropScience Area Manager or your local reseller.

PRECAUTION**Re-entry**

Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic invertebrates.

Overspray or drift to aquatic habitats should be avoided.

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, water bodies or watercourses.

DO NOT contaminate dams, waterways or drains with the product or its container.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If recycling, replace caps and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. **DO NOT** burn empty containers or product. **DO NOT** re-use empty containers for any other purpose.

SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray wear elbow-length PVC gloves. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).

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.

Bayfidan[®], Belt[®], Blue Shield[®] and Confidor[®] are Registered Trademarks 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**Restrains**

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour at the application site.

DO NOT apply with smaller than **MEDIUM** (ground application) or **COARSE** (aerial application) spray droplets according to the ASAE S572 definition for standard nozzles.

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers within 120 metres (ground application) or 450 metres (aerial application) downwind of the application area.

DO NOT apply when there are livestock, pasture or any land that is producing feed for livestock within 40 metres (ground application) or 350 metres (aerial application) downwind of the application area.

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Brassica vegetables Including broccoli, Brussels sprouts, cabbage, cauliflower, kohlrabi	Diamondback moth (<i>Plutella xylostella</i>), cabbage white butterfly (<i>Pieris rapae</i>), cluster caterpillar (<i>Spodoptera litura</i>), heliiothis (<i>Helicoverpa</i> spp.)	75 or 100 mL/ha or Dilute spraying 10 mL/100 L	3 days (H)	Monitor crops and commence insecticide applications once local economic spray thresholds are reached. Apply at egg hatch in crops with nil thresholds for damage. Otherwise, apply at egg hatch or very soon after egg hatch to target young larvae. For potato moth (tomato leafminer), commence sprays when young larvae are first detected in leaves. Use the higher application rate during periods of moderate or high pest pressure or where extended spray intervals are used. Generally, spray intervals of 7 - 14 days are suitable. A maximum of three applications may be applied to any one crop, within a time period of not less than 14 days.
	Soybean looper (<i>Thysanoplusia orichalcea</i>)	50 or 75 mL/ha or Dilute spraying 7.5 mL/100 L		
Capsicum	Heliiothis (<i>Helicoverpa</i> spp.)	100 or 150 mL/ha or Dilute spraying 10 or 15 mL/100 L	1 day (H)	Ensure thorough coverage of the target crop – refer to the “Application” section in GENERAL INSTRUCTIONS.
Lettuce Including head lettuce, leafy lettuce	Heliiothis (<i>Helicoverpa</i> spp.)	75 or 100 mL/ha		The addition of an adjuvant will enhance efficacy of most spray applications of Belt 480 SC. In brassica crops, a suitable adjuvant MUST be used when applying Belt 480 SC. Refer to the “Adjuvants” section in GENERAL INSTRUCTIONS.
Tomato	Heliiothis (<i>Helicoverpa</i> spp.), potato moth (tomato leafminer) (<i>Phthorimaea operculella</i>)	100 or 150 mL/ha or Dilute spraying 10 or 15 mL/100 L or Concentrate spraying Refer to “Application” section in GENERAL INSTRUCTIONS		Belt 480 SC is compatible with integrated pest management (IPM) production systems. Refer to GENERAL INSTRUCTIONS for information on insect resistance management strategies. DO NOT use in protected cropping systems. Use is restricted to field grown crops only.

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

MANDATORY NO-SPRAY ZONES ARE REQUIRED FOR RESIDUE MANAGEMENT AND ENVIRONMENTAL PROTECTION. REFER TO RESTRAINTS.

WITHHOLDING PERIODS**Harvest (H)**

Capsicum, lettuce, tomato: **DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

Brassica vegetables: **DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION**

Grazing (G)

Brassica vegetables: **DO NOT use on Brassicas grown for forage or fodder. DO NOT GRAZE TREATED BRASSICA CROPS**

Export of treated produce

Growers should note that MRLs or import tolerances may not exist in all markets for edible produce treated with Belt 480 SC. 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 Belt 480 SC.