



**BISCAYA**

## User Guide

May 2014

### Product profile

Biscaya is a CN1 (neonicotinoid) insecticide to control aphids in broccoli/calabrese, Brussels sprout, cabbage, cauliflower, carrot, parsnip.

Active substance	240 g/L thiacloprid
Formulation	Oil Dispersion
Pack size	3 litres
Maximum individual dose	0.4 L/ha
Maximum number of applications	2 per crop
Latest time of application	7 days before harvest
Water volume	200-400 L/ha
LERAP	None

### Pests controlled

Broccoli/calabrese, Brussels sprout, cabbage and cauliflower	Cabbage aphid ( <i>Brevicoryne brassicae</i> ) Peach-potato aphid ( <i>Myzus persicae</i> )
Carrot and parsnip	Willow-carrot aphid ( <i>Cavariella aegopodii</i> )

### Key advantages

- ▶ Fast knockdown and persistent systemic action
- ▶ Advanced O-TEQ® formulation technology
- ▶ No varietal restrictions
- ▶ No LERAP
- ▶ Rainfast in two hours

### Broccoli/calabrese, Brussels sprout, cabbage and cauliflower

- ▶ Apply first as aphids start to build up in the crop. Levels of control may be reduced where high, established populations are present. In such circumstances a second application may be required.
- ▶ On autumn/winter crops with longer growing periods destined for later harvesting, one or both of the neonicotinoid foliar applications should be targeted at *Brevicoryne brassicae* and should be applied late in the season when numbers of *Myzus persicae* are low.
- ▶ Biscaya may be used up to 2 times in a programme in alternation with non-neonicotinoid insecticides of a different mode of action (e.g. Movento). Do not use Biscaya in consecutive sprays.

### Resistance management: Brassicas

Use no more than two foliar applications of any neonicotinoid insecticide on any crop. Two foliar applications are permitted regardless of whether a neonicotinoid insecticide has previously been used on the crop as a seed or module treatment. Where one has been used, the first subsequent foliar spray should be with a non-neonicotinoid containing product with a different mode of action.



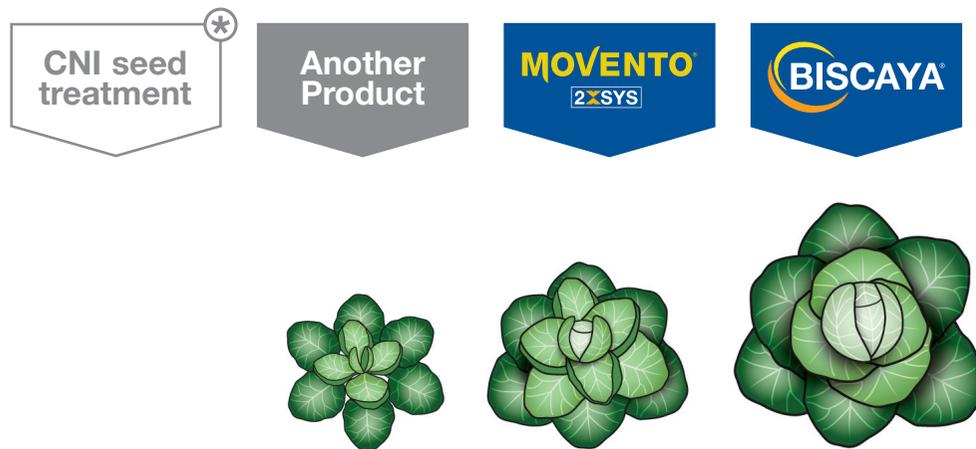
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## Programme planning

- ▶ Use Biscaya for quick 'knockdown' when crop structure is more open and aphids are more exposed to sprays and at the end of the season when colder conditions prevail.
- ▶ Use Movento for long lasting protection in dense actively growing crops, when pests are more hidden.

The following diagram shows how these principles can be applied to the planning of aphid control in autumn/winter cabbage. This approach can apply equally to broccoli/calabrese and cauliflower where hidden pests get into the florets and curd and should also provide effective control of whitefly, even in years of high pressure.



⊛ If CNI (neonicotinoid) seed treatment not used, apply Biscaya first

In Brussels sprouts aphids may need to be controlled right through the second period of aphid infestation, usually from August to the end of October. It is therefore important to time the two permitted applications of Biscaya in alternation with Movento for best effect as illustrated below.

- ▶ Begin the programme with Biscaya to control aphids when crop structure is open
- ▶ Save the first Movento application until the start of button formation so they will be protected from pest and honeydew contamination for as long as possible. Follow with Biscaya.
- ▶ This approach will also provide effective control of whitefly in normal years when populations do not reach epidemic levels.
- ▶ Should a further treatment be required, revert to Movento.



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## Carrots and parsnips

- ▶ Apply first as Willow-carrot aphids start to build up in the crop, normally during May. Crops at the cotyledon stage are most susceptible.
- ▶ Under high aphid pressure a full programme of control is often required including two sprays of Biscaya as illustrated below.

## Programme planning



⊛ If carrot fly are infesting crop at the same time as aphids mix Biscaya with an approved pyrethroid insecticide

## Mixing

- ▶ Shake the container well before use.



- ▶ Half fill the spray tank with clean water, add the required amount of Biscaya with the agitation system in operation and fill to the required level.
- ▶ For induction bowls, half fill the bowl with water before adding Biscaya.
- ▶ Wash out the container, add the washings to the spray tank and top up with clean water.
- ▶ Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.
- ▶ Wash equipment thoroughly, immediately after use, and drain.

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## Application

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- ▶ Apply at a rate of 0.4 L/ha in a water volume of 200-400 L/ha as a medium quality spray.
- ▶ When crops are dense use higher water volumes to ensure good coverage and penetration.
- ▶ Always apply at the full recommended rate of use and in sufficient water volume to achieve the required spray penetration into the crop and uniform coverage necessary for optimal pest control.
- ▶ Do not use in consecutive sprays.

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## Resistance management

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Total reliance on one product will hasten the development of resistance; products of different chemical types or alternative control methods should be included in a planned programme.

Alternating insecticides with different modes of action is a recognised anti-resistance strategy and Biscaya should always be used in conjunction with other insecticides of a different mode of action. This includes consideration of sequences involving seed or soil treatments followed by foliar sprays.

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## Off label approvals (SOLAs & EAMUs)

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Biscaya has off label approvals for use on swede, turnip and outdoor crops of horseradish, parsley root, red beet and salsify. These are used at the grower's own risk; before use, a copy of the off label approval must be obtained from the CRD website; <https://secure.pesticides.gov.uk/offlabels/search.asp>

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## Compatibility

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Biscaya is physically compatible with a range of other products; for the current list please visit [www.bayercropscience.co.uk](http://www.bayercropscience.co.uk)

Biscaya contains thiacloprid. Movento contains spirotetramat. Biscaya, Movento and O-TEQ are registered trademarks of Bayer.

**Use plant protection products safely.**  
**Always read the label and product information before use.**  
**Pay attention to the risk indications and follow the safety precautions on the label. For further information, please visit [www.bayercropscience.co.uk](http://www.bayercropscience.co.uk) or call Bayer Assist on 0845 6092266 / 01223 226644**

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