

SAFETY PRECAUTIONS

Operator protection:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces.
WASH HANDS AND EXPOSED SKIN before meals and after work.
WASH CONCENTRATE from skin or eyes immediately.

Environmental protection:

DO NOT CONTAMINATE WATER with the product or its container. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads)

All crops:

- Dangerous to bees
- Do not use where bees are actively foraging.
- Do not apply when flowering weeds are present
- Remove weeds before flowering

Potatoes:

- To protect bees and other pollinating insects do not apply to crop plants when in flower.
- Do not apply later than 6 days before onset of flowering of crop plants.

Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
WASH OUT CONTAINER THOROUGHLY, empty washings into the spray tank and dispose of safely.
DO NOT RE-USE CONTAINER for any purpose.



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 **CORTEVA™**
agriscience



Closer®
Isoclast™ active

INSECTICIDE

® Trademark of the Corteva Agriscience and its affiliated companies

PCS No. 05341

GROUP 4C INSECTICIDE

A suspension concentrate containing 120 g/litre (11.3% w/w) sulfoxaflor.

A selective insecticide (IRAC Group 4C) for use in POTATOES, BRASSICA VEGETABLES and LEAFY VEGETABLES for the control of aphid species.

PROFESSIONAL USE ONLY

Triple Rinse Containers, Puncture and Invert to Dry at time of Use

PROTECT FROM FROST

Authorisation Holder:

Corteva Agriscience UK Limited

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE

Telephone: + 44 1462 457272

Technical enquiries: +44 800 6898899 or email: ukhotline@corteva.com

24 Hour Emergency Telephone Number: 076 680 5288

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CLOSER®

Toxic to aquatic life with long lasting effects.

Collect Spillage

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardous waste.

Contain 1,2 benzisothiazolin-3-one. May produce an allergic reaction

To avoid risks to human health and the environment, comply with the instructions for use.

PCS No. 05341

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crops / Situations: Broccoli, cabbage, Brussels sprouts, leafy brassicas, leafy vegetable and potatoes.

Maximum Individual Dose: }

Maximum Number of Treatments: } Full details are given in the Important

Latest Time of Application: } Information area on the attached leaflet

Other Specific Restrictions: }

Read the label before use. Using this product in a manner that is inconsistent with the label may be an offence.

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DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

IMPORTANT INFORMATION			
FOR USE ONLY AS A PROFESSIONAL INSECTICIDE			
Crop / Situation	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Potatoes (seed crop) Potatoes (ware crop)	200 mL/ha	2 per crop (See other Specific Restrictions 1 & 2)	7 days before harvest
Broccoli (field), Brussels sprout (field), Cabbage (field), Chinese cabbage (field)	200mL/ha	1 per crop	7 days before harvest
Lettuce (field) Spinach (field)	200mL/ha	1 per crop	7 days before harvest
Other Specific Restrictions: (1) No spray is allowed later than 6 days before onset of flowering and during flowering (2) A minimum spray interval of 21 days must be observed			
READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE.			

NOTES

CLOSER insecticide has a specific pest spectrum. Only apply CLOSER against pests and crops on the label. CLOSER is safe to crops on the label but in the case of known sensitive varieties it is recommended that growers test the product on a small number of plants before treating the whole field.

Wash spray tank and equipment thoroughly with water and a liquid detergent immediately after use. Spray out. Fill with clean water mix for a while and spray out again before using another product.

Consult processor before using on crops for processing.

MODE OF ACTION

CLOSER is a xylem mobile systemic insecticide with translaminar movement which enters the insect primarily through contact and ingestion. Contact occurs by direct application. Ingestion occurs in aphids through the stylet (feeding tube) from within the vascular system of the plant. Following entry to the insect CLOSER acts on the insect nicotinic-Acetylcholine site at a unique target receptor. Symptoms appear almost immediately and complete mortality occurs within a few hours.

OUTDOOR BROCCOLI, BRUSSELS SPROUT, CABBAGE, CHINESE CABBAGE, LETTUCE AND SPINACH

Pest	CLOSER provides sufficient control of all major aphid species damaging leafy vegetable crops including lettuce, and brassica crops but not limited to the dominant aphid species: <i>Myzus persicae</i> (Green peach aphid or peach-potato aphid)
Leafy vegetables - Lettuce: Brassica crops:	<i>Brevicoryne brassicae</i> (cabbage aphid) <i>Myzus persicae</i> (Green peach aphid or peach-potato aphid)
Rate	200 ml/ha
Water volume	200 to 1000 litres of water
Maximum number of applications	One – applied between the 9 true leaves unfolded (BBCH 20) and typical height reached (BBCH 49) stages.
Time and mode of application	Apply at the presence of the first mobile forms with CLOSER at rate of 200 ml/ha. Use a maximum of 200 ml product per ha and year.
Latest time of application	7 days before harvest, BBCH 49

POTATOES (SEED & WARE CROPS)

Pest	CLOSER provides sufficient control of all major aphid species damaging potato including but not limited to the dominant aphid species: <i>Myzus persicae</i> (Green peach aphid or peach-potato aphid) <i>Aphis nasturtii</i> (Buckthorn aphid) <i>Aphis fabae</i> (Black bean aphid) <i>Macrosiphum euphorbiae</i> (Potato aphid)
Rate	200 ml/ha
Water volume	200-600 litres/ha
Maximum number of applications	Two – applied between the stage of formation of basal side shoots (BBCH 20) and leaf yellowing (BBCH 95).
Time and mode of application	Apply at the presence of the first neonates with CLOSER at rate of 200 ml/ha. In the case of high infestation pressure, you can repeat the application if the population started again to grow due to immigration or propagation of survivals. The interval between 2 sprays should be a minimum of 21 days. You can use a maximum amount of 400 ml product/ha in a year. When possible apply CLOSER in programmes with other insecticides which have different modes of action to ensure a good resistance management strategy.
Latest time of application	7 days before harvest; BBCH 95
Other Specific Restrictions	No spray is allowed later than 6 days before onset of flowering and during flowering.

RESISTANCE

GENERAL

To reduce the possibility of the development of resistance:

- Any insect control agent may become less effective over time if target insects or develop resistance to its mode of action. Adherence to the following recommendations will help to ensure the prolonged usefulness of insect control products:
- Total reliance on one pesticide will hasten the development of resistance: sulfoxaflor (IRAC Group 4C) has a different mode of action profile and cross resistance pattern from other insecticides and will ideally be applied in planned programs with other insecticides with different modes of action
- As a general principle, the exclusive or continuous use of the same active substance or mode of action on consecutive generations of insects, which show a high risk of resistance should be avoided. In those cases it is recommended to apply sulfoxaflor either 1 time per season or a maximum of 2 applications of 24 g a.s./ha at 7-14 days interval on the same generation. The maximum number of treatment of sulfoxaflor is two per year, which will reduce the risk of resistance developing, especially if it is alternated with other insecticides that have different modes of action.
- Avoid using less than the labelled rate of sulfoxaflor when applied alone or in tank mixtures.
- For guidance, consult with local extension specialists for information on local resistance management programmes.
- If possible, include multiple tactics (e.g. cultural or biological controls) when using Integrated Pest Management Programs.

INTEGRATED PEST MANAGEMENT

Whenever possible use an Integrated Pest Management programme.

BEEES

Do not apply this product close to bee hives and while bees are actively visiting the area to be treated. Applications should be made when bees are not actively foraging, e.g. before

or after daily bee activity. This product is toxic to bees exposed through contact during spraying, to spray drift and while spray droplets on the treated crop are still wet.

When used according to good agricultural practice, CLOSER will pose a low risk to bees and beneficial arthropods. For further information and the latest advice on beneficial insects and mites and their integrated use with CLOSER consult Corteva Agriscience

MIXING

To ensure thorough mixing of the product invert the container several times before opening. Half fill the spray tank with water, begin agitation and add the required quantity of CLOSER. Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing. Use the spray solution immediately after preparation.

SPRAY VOLUME

Water volume should reflect the need for uniform cover and penetration of the leaf canopy. Finish spraying minimum 1 hour before rainfall, otherwise some decrease in efficacy can happen.

APPLICATION EQUIPMENT

Apply CLOSER using an appropriate sprayer, which is able to ensure good and even coverage of foliage and good penetration of crop canopy. Ensure the equipment is in good working order and has been calibrated according to the manufacturers' recommendations.

NOTES

Wash spray tank and equipment thoroughly with water and a liquid detergent immediately after use. Spray out. Fill with clean water and leave overnight. Spray out again before using another product.

TRADEMARK ACKNOWLEDGEMENTS

CLOSER is a trademark of the Corteva Agriscience and its affiliated companies. All other brand names used in this document are trademarks of other manufacturers in which proprietary rights may exist.

Corteva AgriScience Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

IRELAND

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



<https://www.corteva.ie/content/dam/dpagco/corteva/eu/ie/en/files/sds/CLOSER-IRL-SDS.pdf>

Alternatively contact your supplier

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