



Transform™

Isoclast™ active

INSECTICIDE

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GROUP 4C INSECTICIDE

Product Registration Number: PCS 05342

A water dispersible granule containing 500 g/kg sulfoxaflor.
A selective insecticide (IRAC Group 4C) for the control of aphid species in winter and spring cereal crops.

PROFESSIONAL USE ONLY

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.
PROTECT FROM FROST.**

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

Authorisation Holder:

Corteva Agriscience UK Limited
CPC2 Capital Park, Fulbourn, Cambridge,
Cambridgeshire, CB21 5XE,
Telephone: (01462) 457272

For Technical Enquires Call: +44 (0) 800 6898899 or email: ukhotline@corteva.com
24 Hour Emergency Telephone Number: 076 680 5288
National Poison Centre (Dublin): 01 8092166



SAFETY INFORMATION

TRANSFORM®

WARNING

Very 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 triple rinsed empty containers which can be disposed of as non-hazardous waste.

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

PCS No. 05342

NET CONTENTS : 0.25 KG e

SAFETY PRECAUTIONS

Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), FACE PROTECTION (FACESHIELD / GOGGLES) AND SUITABLE PROTECTIVE GLOVES when handling concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying the product.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Environmental protection:

To protect aquatic organisms respect an unsprayed buffer zone of 30m to surface water bodies*. Direct spray away from water.

* To reduce this buffer zone please refer Directions of Use (STRIPE - Surface Water Tool for Reducing the Impact of Pesticides in the Environment).

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).

Dangerous to bees. Do not use where bees are actively foraging.

Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times.

Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

Store in a suitable pesticide store, keep dry and protect from frost.

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest time of application
Barley, Durum Wheat, Oats, Rye, Spelt, Triticale and Wheat	0,048 kg product/ha	1 per crop	21 days before harvest (BBCH 87)

Other Specific Restrictions:

Due to possible risks to soil dwelling non target organisms:

- Application is only permitted to spring cereals between BBCH 39 and BBCH 87.
- Application is only permitted to winter cereals at GS12-21, during November, December and January or between GS39 and GS87.

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 leaflet 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.

NOTES

TRANSFORM insecticide has a very specific pest spectrum. Only apply TRANSFORM against pests and crops on the label.

Wash spray tank and equipment thoroughly with water and a liquid detergent immediately after use.

MODE OF ACTION

TRANSFORM 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 TRANSFORM acts on the insect nicotinic-Acetylcholine site at a unique target receptor. Symptoms appear almost immediately and complete mortality occurs within a few hours.

RESISTANCE

To reduce the possibility of the development of resistance:

- Any insect control agent may become less effective over time if target insects 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 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 this submission it is planned to use sulfoxaflor once in a season 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.

BEEES

Do not apply during flowering or in the heat of the day when bees may be foraging as TRANSFORM is harmful to bees if in contact with direct spray. Do not apply TRANSFORM when flowering weeds are present as bees may be foraging. Weeds can be controlled by the

prudent use of a herbicide. Corteva Agriscience take the most cautious approach and recommend a period of 24 hours after application before hives are returned to the orchard. Overall the risk to bees from an application of TRANSFORM will be low as it is safe to bees when all spray deposits are thoroughly dry.

INTEGRATED PEST MANAGEMENT

TRANSFORM, when used according to good agricultural practice is unlikely to pose an unacceptable risk to honeybees and beneficial arthropods.

- For further information and the latest advice on beneficial insects and mites and their integrated use with TRANSFORM consult Corteva Agriscience.

CEREALS

NOTES

To avoid variable performance, timing of application should be optimised and good coverage of the foliage should be achieved. It is important when making an application to cereals to use sufficient water volume to achieve effective cover and penetration of the foliage.

Pest	Aphids including:- <i>Sitobion avenae</i> (grain aphid) <i>Metopolophium dirhodum</i> (Rose grain aphid) <i>Rhopalosiphum padi</i> (Bird Cherry-oat aphid)
Rate	48 grams product/ha
Water volume	200 to 315 litres of water per hectare
Maximum number of applications	One
Time of application	Apply when the first aphid colonies appear on plants. Application is only permitted to spring cereals between BBCH39 and BBC87. Application is only permitted to winter cereals at GS12-21, during November, December and January OR between GS39 and GS87.
Latest time of application	21 days before harvest. BBCH 87

MIXING

Half fill the spray tank with water, begin agitation and add the required quantity of TRANSFORM. 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. In cereals water volumes should be a minimum of 200 litres/ha and a maximum of 315 litres/ha.

APPLICATION EQUIPMENT

Apply TRANSFORM using a tractor mounted hydraulic sprayer. Ensure spray equipment is in good working order and has been calibrated according to the manufacturers' recommendations.

COMPATIBILITY

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or ukhotline@corteva.com

TRADEMARK ACKNOWLEDGEMENTS

Transform is a trademark of Corteva Agriscience and its affiliated companies. All other brand names are trademarks of other manufacturers for 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.

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/TRANSFORM-IRL-SDS.pdf>

Alternatively contact your supplier

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