



# Transform®

## INSECTICIDE

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.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.**

**PROTECT FROM FROST.**

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

0.25 kg

**Registered by:**

**Dow AgroSciences Limited**

CPC2 Capital Park,  
Fulbourn, Cambridge, CB21 5XE

Telephone: (01462) 457272

Fax: (01462) 426605

24 Hour Emergency Telephone Number: (00 44) 1553 761 251

**PROFESSIONAL USE ONLY**

**Product Identifier according to Art.18 of Reg. (EC) No 1272/2008 [CLP]:**

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.

## 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.

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

### 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.

### IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Winter and Spring Cereal crops	0.048 kg product/ha	1 per crop	21 days before harvest (BBCH87)

### Other Specific Restrictions:

Due to possible risks to soil dwelling non target organisms, application is only permitted between BBCH39 and BBCH87.

**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 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 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.

## BEES

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. 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 Dow AgroSciences.

## 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.

<b>Pest</b>	Aphids including:- <i>Sitobion avenae</i> (English grain aphid) <i>Metopolophium dirhodum</i> (Rose grain aphid) <i>Rhopalosiphum padi</i> (Bird Cherry-oat aphid)
<b>Rate</b>	48 grams product/ha
<b>Water volume</b>	200 to 315 litres of water per hectare

<b>Maximum number of applications</b>	One - applied from flag leaf ligule just visible (BBCH39) to hard dough ripe (BBCH87)
<b>Time of application</b>	Apply when the first aphid colonies appear on plants. Apply from flag leaf ligule just visible (BBCH39) to hard dough ripe (BBCH87)
<b>Latest time of application</b>	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.

### **Dow AgroSciences 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:



<http://uk.dowagro.com/wp-content/uploads/TRANSFORM-IRL-SDS.pdf>

Alternatively contact your supplier

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