

(Container)



Transform™ WG Insecticide

GROUP	4C	INSECTICIDE
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For control of aphids and Lygus bugs in cereal grains and oilseeds

COMMERCIAL

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: sulfoxaflor 50%
water dispersible granules

REGISTRATION NO. 30825 PEST CONTROL PRODUCTS ACT

WARNING – EYE IRRITANT

NET CONTENTS: 1 kg - bulk

Corteva Agriscience Canada Company
Suite 240, 115 Quarry Park Rd. SE
Calgary, AB
T2C 5G9
1-800-667-3852

™ Trademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Causes eye irritation. DO NOT get in eyes.

PROTECTIVE CLOTHING AND EQUIPMENT

Workers must wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves, and protective eyewear (goggles or faceshield) during mixing, loading, clean-up, and repair. Applicators must wear a long-sleeved shirt, long pants, shoes plus socks.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Toxic to bees exposed to direct treatment, drift, or residues on flowering crops or weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Apply early in the morning or late in the evening when bees are not active. Consult the crop use directions for instructions related to timing of applications.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

To prevent contamination, store this product away from food or feed.

DISPOSAL

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

(Booklet)



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DIRECTIONS FOR USE

GENERAL INFORMATION

Transform WG Insecticide can be used to control aphids and Lygus bugs in cereal grains and oilseeds.

GENERAL USE PRECAUTIONS

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC INSECT CONTROL OR CROP DAMAGE.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Restricted Entry Interval (REI)

Do not enter or allow entry into treated areas during the restricted-entry interval (REI) of 12 hours or until sprays have dried.

Plant back interval (PBI)

A period of 30 days must elapse between the treatment of primary crops and the planting of secondary crops not on the label.

Tank Mixtures

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Corteva Agriscience Canada Company at 1-800-667-3852 or www.corteva.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Corteva Agriscience Canada Company.

Application Instructions

Carefully read, understand and follow label use rates and restrictions. Apply Transform WG as a foliar spray at the rate indicated for target pest. The low rates may be used for light infestations of the target pests and the higher rates for moderate to heavy infestations. Apply the amount specified with properly calibrated aerial or ground spray equipment. Proper application techniques help ensure thorough spray coverage and correct dosage for optimum insect control.

Mixing Instructions

Fill the spray tank with water to about 1/2 of the required spray volume. Start agitation and add the required amount of Transform WG. Continue agitation while mixing and filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

Ground Application

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE) fine classification. Boom height must be 60 cm or less above the crop or ground. Apply in sufficient spray solution to ensure thorough coverage of the foliage. Use a minimum of 100 litres of water per hectare for field sprayer applications.

Aerial Application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE) fine classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. **Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.**

Apply in a minimum of 30 litres per hectare. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or equivalent electronic positioning systems (GPS).

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

See specific crop instructions for additional precautions and recommended application rates. Where rate ranges appear, use the high rate when pest populations are high or for extended intervals.

Barley and Wheat

Pest	Rate (g/ha)	Restrictions
Cereal aphid	25-50	Do not make more than 2 applications per growing season. Do not apply more than 200 g/ha per growing season.
Russian wheat aphid	50-100	<p>DO NOT apply this product during crop flowering period or when flowering weeds are present in the treatment area.</p> <p>Preharvest Interval: Do not apply within 14 days of grain or straw harvest or within 7 days of forage, fodder, or hay harvest.</p> <p>Minimum Treatment Interval: Do not make applications less than 14 days apart.</p> <p>For ground application, use a minimum spray volume of 100 L/ha. For aerial application, use a minimum spray volume of 30 L/ha. Refer to the section of the label titled Aerial Application for detailed use instructions.</p>

Canola (Rapeseed), Flax Seed and Similar Oilseeds (Crop Subgroup 20A)¹

¹Crop Subgroup 20A: borage, crambe, echium, flax seed, gold of pleasure, hare’s ear mustard, lesquerella, lunaria, milkweed, mustard seed, oil radish, rapeseed, sweet rocket, and cultivars, varieties and/or hybrids of these

Pest	Rate (g/ha)	Restrictions
Aphids	25-50	<p>Do not make more than 2 applications per growing season. Do not apply more than 200 g/ha per growing season.</p> <p>DO NOT apply this product during crop flowering</p>

Lygus bugs	100	<p>period or when flowering weeds are present in the treatment area.</p> <p>Preharvest Interval: Do not apply within 14 days of grain or straw harvest or within 14 days of forage, fodder, or hay harvest.</p> <p>Minimum Treatment Interval: Do not make applications less than 14 days apart.</p> <p>For ground application, use a minimum spray volume of 100 L/ha. For aerial application, use a minimum spray volume of 30 L/ha. Refer to the section of the label titled Aerial Application for detailed use instructions.</p>
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RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Transform WG contains a Group 4C insecticide. Any insect population may contain individuals naturally resistant to Transform WG and other Group 4C insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Transform WG or other Group 4C insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Corteva Agriscience Canada Company at 1-800-667-3852 or at www.corteva.ca.

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