

(Container)



GF-2257

Herbicide

GROUP	2	4	HERBICIDES
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For the control or suppression of annual broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley, rye (fall and spring) and oats

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

COMMERCIAL (AGRICULTURAL)

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

ACTIVE INGREDIENTS:

florasulam 5 g/L
fluroxypyr 100 g/L
(present as 1-methylheptyl ester)

Contains 1,2-benzisothiazolin-3-one at 0.03% as a preservative
OR

Contains 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.0006%, 2-Methyl-4-isothiazolin-3-one at 0.0002% as preservatives
Suspension

REGISTRATION NO. 33289 PEST CONTROL PRODUCTS ACT

WARNING EYE AND SKIN IRRITANT

NET CONTENTS: 1 L - Bulk

Corteva Agriscience Canada Company

Suite 240, 115 Quarry Park Rd. SE
Calgary, Alberta
T2C 5G9
1-800-667-3852

™Trademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN
DO NOT APPLY BY AIR

Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or faceshield) during mixing and loading. Wash contaminated clothing before reuse. Destroy contaminated shoes and leather articles.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12-hours.

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Do not use or store near heat or open flame.

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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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 the judgment of the physician in response to reactions of the patient. This product contains a **PETROLEUM DISTILLATE**. **DO NOT INDUCE VOMITING.** Vomiting may cause aspiration pneumonia. If burn is present, treat as any thermal burn after decontamination. If swallowed, aspiration may cause chemical pneumonia. When considering emptying the stomach, the danger of chemical pneumonia must be weighed against toxicity. If lavage is performed, a cuffed endotracheal tube should be considered

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL PRECAUTIONS

- TOXIC to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- 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 filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

STORAGE

Store this product away from food or feed. Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

DISPOSAL

Recyclable Containers

Disposal of container: 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.
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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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GENERAL INFORMATION

GF-2257 Herbicide is a selective postemergence herbicide for the control of hard-to-kill annual broadleaved weeds in spring wheat (including durum), winter wheat, spring barley, rye (fall and spring) and oats. GF-2257 Herbicide is mixed with water and applied as a uniform broadcast spray.

GF-2257 Herbicide MUST be applied early postemergence, to the main flush of actively growing broadleaved weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of GF-2257 Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

GF-2257 Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

MODE OF ACTION

GF-2257 Herbicide contains a Group 2 and a 4 mode of action herbicide. The Group 2 mode of action herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids required for plant growth. The Group 4 mode of action herbicide disrupts normal plant growth regulation resulting in death of susceptible plants.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply GF-2257 Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

Non-Target Sites

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Precautions section of the label.

Crop Rotation

Fields previously treated with GF-2257 Herbicide can be seeded the following year to alfalfa, barley, rye, canola, corn, dry common beans (*Phaseolus vulgaris*), faba bean, flax, lentils, mustard (brown, oriental and/or yellow) oats, peas, potatoes (except seed potatoes), soybeans, sunflower or wheat or fields can be summerfallowed.

Tank Mixtures

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide 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 applying any tank mix that is not specifically recommended on this label.

Spray Equipment Precaution

Do not apply through any type of irrigation system.

To Reduce Spray Drift:

1. Use nozzles delivering higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/hr or less.
5. Spot treatments should only be applied with a calibrated boom to prevent over-application.

Sprayer clean-out

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.

1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
 - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
 - Agitate and circulate for 15 minutes, and flush through booms and hoses.

- Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - Drain tank completely.
3. Second rinse:
- Fill the tank with clean water.
 - Add All Clear Spray Tank Decontaminator plus 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water as per manufacturer's recommendations while filling the tank with clean water.
 - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.
 - After flushing the boom and hoses, drain tank completely.
 - Remove nozzles and screens and clean separately with the cleaning agent and ammonia solution (100 mL in 10 L water).
4. Third rinse:
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
 - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - Drain tank completely.

Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

DIRECTIONS FOR USE

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

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.

Field sprayer application

DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays smaller than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Coarse classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application

DO NOT apply by air.

Application Rate

For control of a wide spectrum of broadleaved weeds, apply a uniform spray containing 1.0 L/ha of GF-2257 Herbicide in a minimum of 50 L of water per hectare to thoroughly cover the weeds. Apply to actively growing wheat, barley, rye and oats from the 2 leaf expanded to just prior to flag leaf emergence. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water
2. Start sprayer tank agitation
3. Add the required amount of GF-2257 Herbicide and continue to agitate
4. Fill the sprayer tank with the remaining amount of water required

GF-2257 Herbicide at 1.0 L/ha**Crops**

Spring wheat, durum wheat, winter wheat, spring barley, rye (fall and spring) and oats.

Weeds Controlled

cleavers***	smartweed
common chickweed	sow thistle, perennial (top growth)****
cow cockle	stinkweed
dandelion, seedlings, rosettes and overwintered rosettes (up to 25 cm in diameter) (top growth)	volunteer canola**
kochia*	volunteer flax
narrow-leaved hawk's beard, up to late rosette	wild buckwheat
shepherds-purse	wild mustard

* including ALS and glyphosate-resistant biotypes

** including herbicide tolerant canola varieties

*** including Group 2 resistant biotypes

**** applications made at advanced leaf stages will reduce product effectiveness

Weeds Suppressed

Canada thistle	sow thistle, annual
hemp-nettle	stork's bill (1-8 leaf)
redroot pigweed	

Pre-Harvest/Grazing Intervals

1. Do not cut the treated crop for hay or graze treated crop within 7 days after application.
2. Do not harvest the treated crop within 60 days after application.

TANKMIX COMBINATIONS WITH GF-2257 HERBICIDE

Tank mixtures of GF-2257 Herbicide with other herbicides will provide control of additional broadleaved weeds and specified annual grasses. Apply when crops and weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Tridem A Herbicide and any other dry formulations.
4. Add the required amount of GF-2257 Herbicide and continue to agitate.
5. Add MCPA ester or 2,4-D ester next and continue to agitate.
6. Add the required amount of Avenza B Herbicide and continue to agitate.
7. Fill the sprayer tank with the remaining amount of water required.

Notes: Follow tank mix partner for order of mixing.

GF-2257 Herbicide at 1.0 L/ha + Tridem A Herbicide at 52 g/ha**Crops Registered**

Spring wheat, durum wheat and winter wheat

Grassy weeds controlled

Japanese brome (1-4 leaf) ♦

wild oats**

♦ for control of Japanese brome from the 1 leaf to 4 leaf, 2 tiller stage under good growing conditions

for low wild oat populations (<75 plants/m²)Broadleaf weeds Controlled**

cleavers***

common chickweed

cow cockle

dandelion, seedlings, rosettes and overwintered
rosettes (up to 25 cm in diameter) (top growth)

kochia*

narrow-leaved hawk's beard, up to late rosette

shepherds-purse

smartweed

sow thistle, perennial (top growth)****

stinkweed

volunteer canola**

volunteer flax

wild buckwheat

wild mustard

♦ including ALS and glyphosate-resistant biotypes

** including herbicide tolerant canola varieties except Clearfield canola

*** including Group 2 resistant biotypes

**** applications made at advanced leaf stages will reduce product effectiveness

Weeds Suppressed

Canada thistle

hemp-nettle

redroot pigweed

sow thistle, annual

stork's bill (1-8 leaf)

GF-2257 Herbicide at 1.0 L/ha + Avenza B Herbicide at 1.2 L/ha**Crops Registered**

Spring wheat, winter wheat and spring barley

Grassy weeds controlled

barnyard grass♦

foxtail, green and yellow♦

oats, volunteer♦

canary seed, volunteer♦

millet, proso♦

oats, wild♦

♦ 1 to 6-leaf, prior to 4th tiller**Broadleaf weeds Controlled**

cleavers****

common chickweed

cow cockle

dandelion, seedlings, rosettes and overwintered
rosettes (up to 25 cm in diameter) (top growth)

kochia**

narrow-leaved hawk's beard, up to late rosette

shepherds-purse

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sow thistle, perennial (top growth)****

stinkweed

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volunteer flax

wild buckwheat

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Weeds Suppressed

Canada thistle	sow thistle, annual
hemp-nettle	stork's bill (1-8 leaf)
redroot pigweed	

Tank Mix Combinations GF-2257 Herbicide at 1 L/ha + Tridem A Herbicide at 52 g/ha (spring wheat, durum wheat and winter wheat) or Avenza B Herbicide at 1.2 L/ha (spring wheat, winter wheat and spring barley)

Herbicide Tank Mix Partner	Rate (Product/ha)	Additional Weeds Controlled Include
MCPA Ester 600	460 mL/ha (280 g a.e./ha)	Volunteer canola (1-6 leaf stage)* Lamb's-quarters (1-6 leaf stage)
	580-900 mL/ha (350-540 g a.e./ha)	<i>Above weeds, plus:</i> Burdock (before the 4-leaf stage) Cocklebur Flixweed† Mustards (except Dog and Tansy) Plantain Prickly lettuce Ragweeds Russian thistle† Vetch Wild radish Wild (annual) sunflower
	580 mL/ha (350 g a.e./ha)	Ball mustard Canada thistle (top growth)
2,4-D Ester 700	425 mL/ha (280 g a.e./ha)	Volunteer canola (1-6 leaf stage)* Lamb's-quarters (1-6 leaf stage)
	500-800 mL/ha (330-528 g a.e./ha)	<i>Above weeds, plus:</i> Annual sow thistle Bluebur (before the 4-leaf stage) Burdock (before the 4-leaf stage) Cocklebur Daisy fleabane False flax False ragweed Flixweed Giant ragweed Goat's beard Mustards (except Dog and Tansy) Plantain Prickly lettuce Ragweed Redroot pigweed Russian pigweed Russian-thistle Stinging nettle Sweet Clover (seedling) Thyme-leaved spurge Wild radish Wild (prairie) sunflower.

	600 mL/ha (396 g a.e./ha)	Above weeds, plus: Round-leaved mallow (1-6 leaf) Stork's-bill (1-8 leaf)
	530 mL/ha (350 g a.e./ha)	Canada thistle (top growth)

*Including imidazolinone tolerant volunteer canola

†Use the higher rate in the rate range

Fungicide Tank Mix Partner	Rate (Product/ha)	Pests Controlled
Tilt 250 E or Stratego 250 EC	Consult fungicide tankmix partner label for fungicide rates	Consult fungicide tankmix partner label for diseases controlled

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley, rye, oats	1	0	N/A	N/A	2

N/A = Not applicable (Spray buffer zones for the protection of estuarine/marine habitats are not applicable for uses registered only in the Prairie provinces (Manitoba, Saskatchewan, Alberta) and the interior of British Columbia, including the Peace River Region.

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment that are larger than 1m can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, GF-2257 Herbicide is a Group 2 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to GF-2257 Herbicide and other Group 2 and Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of GF-2257 Herbicide or other Group 2 herbicide within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- 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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