

(Container)



GF-2257

Herbicide

GROUP	2	4	HERBICIDES
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For the control of annual broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE INTERIOR OF BRITISH COLUMBIA ONLY

AGRICULTURAL

READ THE LABEL AND 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 0.01% as a preservative
Suspension

REGISTRATION NO. 33289 PEST CONTROL PRODUCTS ACT

WARNING EYE AND SKIN IRRITANT

NET CONTENTS: 1 L -Bulk

Dow AgroSciences Canada Inc.
2400, 215 – 2nd Street SW
Calgary, Alberta
T2P 1M4
1-800-667-3852

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or faceshield) during mixing and loading. Gloves are not required during application within a closed cab. Wash contaminated clothing before reuse. Destroy contaminated shoes and leather articles.

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

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

This product contains aromatic petroleum distillates which are toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.

Toxic to non-target plants and aquatic organisms. Observe 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 strip between the treated area and the edge of the water body.

STORAGE

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

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.

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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. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



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This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of GF-2257 Herbicide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

STORAGE

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. To prevent contamination, store this product away from food or feed. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

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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 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 barley, canola, corn, dry common beans (*Phaseolus vulgaris*), 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

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 Dow AgroSciences Canada Inc at 1-800-667-3852 or www.dowagro.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 Dow AgroSciences Canada Inc.

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 UNDERSEEDED WITH LEGUMES.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 30 metres is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelter belts, woodlots, hedgerows, and shrublands. A buffer zone of 15 metres is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, ponds, prairie potholes, lakes, rivers, streams, wetlands and wildlife habitats at the edge of these bodies of water. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

Do not apply during periods of dead calm or when winds are gusty.

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

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, and oats from the 2 leaf expanded to 6 leaf stage. 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 and oats.

Weeds Controlled

cleavers***	stinkweed
common chickweed	volunteer canola**
cow cockle	volunteer flax
kochia*	wild buckwheat
shepherds-purse	wild mustard
smartweed	

* including ALS resistant biotypes

** including herbicide tolerant canola varieties

*** including Group 2 resistant biotypes

Weeds Suppressed

hemp-nettle	sowthistle, annual
narrow-leaved hawksbeard	sowthistle, perennial***
redroot pigweed	stork's bill (1-8 leaf)

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

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.

TANK-MIX 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. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

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 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

Weeds Controlled

cleavers***	stinkweed
common chickweed	volunteer canola**
cow cockle	volunteer flax
Japanese brome (1-4 leaf) ****	wild buckwheat
kochia*	wild mustard
shepherds-purse	wild oats****
smartweed	

* including ALS resistant biotypes

** including herbicide tolerant canola varieties except Clearfield canola

*** including Group 2 resistant biotypes

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

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

Weeds Suppressed

hemp-nettle	sowthistle, annual
narrow-leaved hawkbeard	sowthistle, perennial*****
redroot pigweed	stork's bill (1-8 leaf)

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

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*	canary seed, volunteer*
foxtail, green and yellow*	millet, proso*
oats, volunteer*	oats, wild*

* 1 to 6-leaf, prior to 4th tiller

Broadleaf weeds Controlled

cleavers****	stinkweed
common chickweed	volunteer canola***
cow cockle	volunteer flax
kochia**	wild buckwheat
shepherds-purse	wild mustard
smartweed	

** including ALS resistant biotypes

*** including herbicide tolerant canola varieties except Clearfield canola

**** including Group 2 resistant biotypes

Weeds Suppressed

hemp-nettle	sowthistle, annual
narrow-leaved hawkbeard	sowthistle, perennial*****
redroot pigweed	stork's bill (1-8 leaf)

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

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 or Suppressed (S) Include
MCPA Ester 600	<p>460 mL/ha (280 g a.e./ha)</p> <p>580-900 mL/ha (350-540 g a.e./ha)</p> <p>580 mL/ha (350 g a.e./ha)</p> <p>700 mL/ha (420 g a.e./ha)</p>	<p>Volunteer canola (1-6 leaf stage)* Lamb's-quarters (1-6 leaf stage) *Including imidazolinone tolerant volunteer canola</p> <p>Burdock (before the 4-leaf stage) Cocklebur Plantain Flixweed† Lamb's-quarters Mustards (except Dog and Tansy) Prickly lettuce Ragweeds Russian thistle† Shepherd's-purset† Stinkweed Vetch Wild radish Wild (annual) sunflower †Use the higher rate in the rate range</p> <p>Ball mustard Canada thistle (suppression)</p> <p>Canada thistle</p>
2,4-D Ester 700	<p>425 mL/ha (280 g a.e./ha)</p> <p>500-800 mL/ha (330-528 g a.e./ha)</p>	<p>Volunteer canola (1-6 leaf stage)* Lamb's-quarters (1-6 leaf stage) *Including imidazolinone tolerant volunteer canola</p> <p>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 Kochia Lamb's-quarters Mustards (except Dog and Tansy) Narrow-leaved hawk's-beard (in fall, and at the 1- to 2-leaf stage in spring) Plantain Prickly lettuce Ragweed Redroot pigweed Russian pigweed</p>

	600 mL/ha (396 g a.e./ha)	Russian-thistle Shepherd's-purse Stinging nettle Stinkweed Sweet Clover (seedling) Thyme-leaved spurge Volunteer canola (all types, 1- to 4-leaf) Wild radish Wild (prairie) sunflower. Round-leaved mallow (1-6 leaf) Common chickweed (suppression) Stork's-bill (1-8 leaf)
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Fungicide Tank Mix Partner	Rate (Product/ha)	Pests Controlled
Tilt 250 E or Stratego 250 EC	Consult fungicide tank-mix partner label for fungicide rates	Consult fungicide tank-mix partner label for diseases controlled

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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca.

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032919 rev

Label Code: CN-33289-002-E-rev

Replaces: CN-33289-001-E

Specimen Label Note

PMRA revisions to:

Add 2,4-D Ester 700 new rate range, tank mixes with Avenza B + 2,4-D or MCPA