

2023-1009
2023-05-19

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

CAUTION eye and skin irritant. DO NOT get in eyes or skin. Potential skin sensitizer.

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

PROTECTIVE CLOTHING AND EQUIPMENT

Wear, coveralls over 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.

OPERATOR USE PRECAUTIONS

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

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

THIS PRODUCT CONTAINS A PETROLEUM DISTILLATE. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

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

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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.

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

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.

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. 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.

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).

Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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.

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ENVIRONMENTAL PRECAUTIONS

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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.

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

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.

STORAGE

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Refillable Containers

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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.

GENERAL INFORMATION

GF-3538 Herbicide is a postemergent herbicide for the control of annual broadleaved weeds and wild oats in spring wheat, durum wheat and winter wheat, not underseeded with legumes. GF-3538 Herbicide combines two novel modes of action for controlling hard-to-kill weeds such as kochia (including glyphosate and ALS-inhibitor resistant biotypes), cleavers and wild oats.

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GF-3538 Herbicide must be applied early postemergence, to the main flush of actively growing weeds. Conditions favouring active weed growth enhance the activity of GF-3538 Herbicide 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. 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. See "DIRECTIONS FOR USE" section of this label for complete use details.

MODE OF ACTION

GF-3538 Herbicide contains pyroxsulam which inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids which are essential for plant growth. GF-3538 Herbicide also contains a systemic auxin-type herbicide and moves within the plant for control of exposed and underground plant tissues. The product controls weeds by disrupting normal plant growth patterns. Symptoms of weeds include epinasty (twisting of the stems) and swollen nodes.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply GF-3538 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-3538 Herbicide can be seeded the following year to barley, canola, corn, dry beans (of the species *Phaseolus vulgaris*), flax, lentils, yellow and brown, mustard, oats, peas, potatoes, soybeans, sunflower, or spring 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:

- Use nozzles delivering higher volumes and coarser droplets.
- Use low pressures (200 to 275 kPa).
- Use 100 L/ha of spray solution.
- Spray when the wind velocity is 15 km/hr or less.
- 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.

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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 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 a cleaning agent or an 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.

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 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 Engineers (ASAE S572.1) course classification. Boom height must be 60 cm or less above the crop or ground.

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 Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing or rotorspan.

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Crops Registered

Wheat (spring, durum and winter), not underseeded to legumes

GF-3538 HERBICIDE ALONE

Apply GF-3538 Herbicide for postemergent control of weeds infesting spring wheat, durum wheat and winter wheat. GF-3538 Herbicide will control only emerged weeds. Weeds that germinate after application will not be controlled. See following tables for weeds controlled/suppressed and applications rates.

Application Timing

Apply to actively growing wheat from the 3-leaf crop growth stage up to and including initiation of stem elongation.

Apply when weeds are actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Foliage that is wet at the time of application may decrease control. GF-3538 Herbicide applications are rainfast within 1 hour after application. Under conditions of low crop and high weed density, control may be reduced.

NOTE: GF-3538 Herbicide activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

Application of GF-3538 Herbicide on very coarse-textured soils, low in organic matter (soils <3%), or in fields with poor soils conditions may increase the risk of crop injury. Ensure field has proper fertility. Severe environmental factors alone or in combination over extended periods such as cold waterlogged-soil conditions, drought or seedling disease can delay seedling development, emergence and vigor that may result in unacceptable crop response.

Preharvest/Grazing Intervals (GF-3538 Herbicide applied alone)

- Livestock may be grazed on treated crops 7 days following application.
- Do not harvest the treated crop within 60 days after application.

RATES OF APPLICATION AND WEEDS CONTROLLED OR SUPPRESSED

TABLE 1

Weeds Controlled or Suppressed by GF-3538 Herbicide at 0.88 L/ha	
<u>Weeds controlled</u>	
cleavers (1-8 whorls)	wild oats (<75 plants/m ² , up to 4 leaf, 2 tiller)
Japanese brome (1-4 leaf)*	wild buckwheat (1-4 leaf)
volunteer flax (1-12 cm)	
<u>Weeds suppressed</u>	
kochia** (2-8 leaf)	
stork's-bill (1-8 leaf)	

* For control of Japanese brome from the 1 leaf to 4 leaf, 2 tiller stage under good growing conditions, apply GF-3538 Herbicide at the 0.88 L/ha rate. For larger Japanese brome (up to the 6 leaf stage) and less than optimum growing conditions, use the 1.17 L/ha rate.

**Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides

TABLE 2

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Weeds Controlled or Suppressed by GF-3538 Herbicide at 1.17 L/ha

Weeds controlled

barnyard grass (1-5 leaf)	redroot pigweed (1-8 leaf)
cleavers (1-8 whorls)	round-leaved mallow (up to 6 leaf stage, <10 cm)
common chickweed (up to 10 cm)	shepherd's purse (up to 30 cm tall)
corn spurry (up to 2 whorl stage, <10 cm)	smartweed (lady's-thumb, 1-5 leaf)
cow cockle (up to 8 leaf)	stinkweed (up to 30 cm tall)
flax, volunteer (1-12 cm)	wild buckwheat (1-4 leaf)
flixweed (up to 10 cm)	volunteer canola (1-6 leaf)**
hemp-nettle (1-8 leaf)	wild oats (up to 4 leaf, 2 tiller)
kochia* (2-8 leaf)	yellow foxtail (1-5 leaf)

Weeds suppressed

Canada thistle (up to 30 cm tall, prebud)	green foxtail (1-5 leaf)
dandelion (seedlings and over-wintered rosettes less than or equal to 20 cm)	Russian thistle (up to 10 cm tall)
downy brome (2-6 leaf, 4 tillers)	stork's bill (1-8 leaf)

*Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides

**Including varieties resistant to Group 9 (glyphosate) and Group 10 (glufosinate ammonium) herbicides

APPLICATION DIRECTIONS (GROUND AND AERIAL APPLICATIONS)

(1) Ground Application

Using ground equipment, apply GF-3538 Herbicide alone or with tank mix partners as a broadcast treatment. Apply GF-3538 Herbicide alone at the recommended rates in a spray volume of 50-100 L water/ha.

(2) Aerial Application

Do not use human flaggers.

Use GF-3538 Herbicide alone or tank mixed with a product registered for aerial application as a broadcast treatment. Apply the recommended rates of GF-3538 Herbicide and tank mix partner as indicated elsewhere on this label. Apply in a spray volume of 30-50 L water/ha.

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.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate swath marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even 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

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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 the 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:

- The interactions of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.

The following drift management requirement must be followed to avoid off-target drift movement from aerial applications: Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

TANK-MIX COMBINATION – GF-3538 HERBICIDE + 2,4-D ESTER HERBICIDE

For control of a wide spectrum of grass and broadleaf weeds in wheat, apply GF-3538 Herbicide tank mixed with 2,4-D Ester Herbicide at the rates listed below (Table 3 and 4).

Crops Registered

Wheat (spring, durum and winter), not underseeded to legumes

Application Timing

Apply when spring wheat and durum wheat are in the 4-leaf stage to before the flag-leaf stage. Application before the 4-leaf stage of wheat may cause severe twisting of leaves and stem and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage.

Apply post-emergence when weeds are in the seedling stage (2-4 leaf, unless otherwise noted), and actively growing, as indicated in the following table. Extreme growing conditions such as drought or near freezing temperature prior to, at, or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Under conditions of low crop and high weed density, control may be reduced.

Preharvest/Grazing Intervals (GF-3538 Herbicide plus 2,4-D Ester Herbicide)

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

RATES OF APPLICATION AND WEEDS CONTROLLED OR SUPPRESSED

TABLE 3

Weeds Controlled or Suppressed by GF-3538 Herbicide at 0.88 L/ha tank mixed with 2,4-D Ester Herbicide at 400 g ae/ha (equivalent to 0.6 L/ha of 660 g ae/L formulation)

Weeds Controlled

bluebur	mustards (except green, dog & grey tansy)
burdock	oats, wild (<75 plants/m ² , up to 4 leaf, 2 tiller)
canola, volunteer	plantain
cleavers (1-8 whorls)	prickly lettuce
clovers (sweet)	ragweed
cocklebur	round-leaved mallow (1-6 leaf)
flax, volunteer (1-12 cm)	shepherd's-purse
flixweed	stork's-bill (1-8 leaf)
field horsetail*	stinkweed
goat's-beard	sunflower (annual)
hemp-nettle (2-6 leaf stage)	vetch
hoary cress*	wild buckwheat (1-4 leaf)
kochia** (2-8 leaf)	wild radish
lamb's-quarters	

Weeds suppressed

sow-thistle (perennial)*
redroot pigweed

* Top growth control only

**Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides

TABLE 4

Weeds Controlled by GF-3538 Herbicide at 1.17 L/ha tank mixed with 2,4-D Ester Herbicide at 350 g ae/ha (equivalent to 0.53 L/ha of 660 g ae/L formulation)

Weeds Controlled

barnyard grass (1-5 leaf)	hoary cress*
brome, Japanese (1-6 leaf)	kochia** (up to 20 cm)
bluebur	lamb's-quarters
burdock	mustards (except green tansy, dog & grey tansy)
canola, volunteer	oats, wild (<75 plants/m ² , up to 4 leaf, 2 tiller)
chickweed, common (up to 10 cm)	pigweed, red-root (1-8 leaf)
cleavers (1-8 whorls)	plantain
clovers (sweet)	prickly lettuce
cocklebur	ragweed
corn spurry (up to 2 whorl stage, <10 cm)	round-leaved mallow (up to 6 leaf stage, <10 cm)
cow cockle (up to 8 leaf)	shepherd's purse (up to 30 cm tall)
flax, volunteer (1-12 cm)	smartweed (lady's-thumb, 1-5 leaf)
flixweed	stinkweed (up to 30 cm tall)
field horsetail*	sunflower (annual)
foxtail, yellow (1-5 leaf)	thistle, Russian
goat's-beard	vetch
hemp-nettle (1-8 leaf)	wild buckwheat (1-4 leaf)
	wild radish

Weeds suppressed

brome, downy (2-6 leaf, 4 tillers)
dandelion (seedlings and over-wintered rosettes less than or equal to 20 cm)

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foxtail, green (1-5 leaf)
stork's-bill (1-8 leaf)
thistle, Canada (up to 30 cm tall, prebud)

- ♦ Top growth control only.
- ♦♦ Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides

TANK-MIX COMBINATION – GF-3538 HERBICIDE + MCPA ESTER HERBICIDE

For control of a wide spectrum of grass and broadleaf weeds in wheat, apply GF-3538 Herbicide tank mixed with MCPA Ester Herbicide at the rates listed below (Tables 5 and 6).

Crops Registered

Wheat (spring, durum and winter), not underseeded to legumes

Application Timing

Apply when spring wheat and durum wheat are in the 3-leaf expanded to initiation of stem elongation. Apply to winter wheat in the spring from full tillering stage to initiation of stem elongation stage.

Apply post-emergence when weeds are in the seedling stage (2-4 leaf, unless otherwise noted), and actively growing, as indicated in the following tables. Extreme growing conditions such as drought or near freezing temperature prior to, at, or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Under conditions of low crop and high weed density, control may be reduced.

Preharvest/Grazing Intervals (GF-3538 Herbicide plus MCPA Ester Herbicide)

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

TABLE 5

Weeds Controlled or Suppressed by GF-3538 Herbicide at 0.88 L/ha tank mixed with MCPA Ester Herbicide at 350 to 540 g ae/ha* (equivalent to 580 to 900 mL/ha of 600 g ae/L formulation)

Weeds controlled

burdock (before the 4-leaf stage)	Russian pigweed♦♦
cleavers (1-8 whorls)	shepherd's purse♦♦
cocklebur	stinkweed
flixweed♦♦	vetch
Japanese brome (1-4 leaf)♦♦♦	volunteer flax (1-12 cm)
lamb's-quarters	wild buckwheat (1-4 leaf)
mustards (except dog and tansy)	wild oats (<75 plants/m ² , up to 4-leaf, 2 tiller)
plantain, common	wild radish
prickly lettuce	wild (annual) sunflower
ragweed	

Weeds suppressed

kochia♦♦♦♦ (2-8 leaf)
stork's-bill (1-8 leaf)

♦ Use low rate of MCPA Ester for small seedlings (2- to 4-leaf), growing rapidly, good growing conditions. Use high rate for large weeds, dry or cold weather, heavy infestations.

♦♦ Use high rate of MCPA Ester.

♦♦♦ For control of Japanese brome from the 1-leaf to 4-leaf, 2 tiller stage under good growing conditions, apply GF-3538 Herbicide at the 0.88 L/ha rate.

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♦♦♦Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides.

TABLE 6

Weeds Controlled or Suppressed by GF-3538 Herbicide at 1.17 L/ha tank mixed with MCPA Ester Herbicide at 350 to 540 g ae/ha* (equivalent to 580 to 900 mL/ha of 600 g ae/L formulation)

Weeds controlled

barnyard grass (1-5 leaf)	ragweed
burdock (before the 4-leaf stage)	redroot pigweed (1-8 leaf)
cleavers (1-8 whorls)	round-leaved mallow (up to 6-leaf stage, <10 cm)
cocklebur	Russian pigweed♦♦
common chickweed (up to 10 cm)	shepherd's purse♦♦
corn spurry (up to 2 whorl stage, <10 cm)	smartweed (lady's-thumb, 1-5 leaf)
cow cockle (up to 8-leaf)	stinkweed
flax, volunteer (1-12 cm)	vetch
flixweed♦♦	volunteer canola (1-6 leaf)♦♦♦♦
hemp-nettle (1-8 leaf)	wild buckwheat (1-4 leaf)
Japanese brome (1-4 leaf)♦♦	wild oats (<75 plants/m ² , up to 4-leaf, 2 tiller)
kochia♦♦♦♦ (2-8 leaf)	wild radish
lamb's-quarters	wild (annual) sunflower
mustards (except dog and tansy)	yellow foxtail (1-5 leaf)
plantain, common	
prickly lettuce	

Weeds suppressed

Canada thistle (up to 30 cm tall, prebud)
dandelion (seedlings and over-wintered rosettes less than or equal to 20 cm)
downy brome (2-6 leaf, 4 tillers)
green foxtail (1-5 leaf)
stork's-bill (1-8 leaf)
Russian thistle (up to 10 cm tall)

♦ Use low rate of MCPA Ester for small seedlings (2- to 4-leaf), growing rapidly, good growing conditions, Use high rate for large weeds, dry or cold weather, heavy infestations

♦♦ Use high rate of MCPA Ester

♦♦♦ For larger Japanese brome (up to the 6-leaf stage) and less than optimum growing conditions, use the 1.17 L/ha rate.

♦♦♦♦Including biotypes resistant to Group 9 (glyphosate) and Group 2 (ALS inhibiting) herbicides

♦♦♦♦♦Including varieties resistant to Group 9 (glyphosate) and Group 10 (glufosinate ammonium) herbicides

SPRAY BUFFER ZONES

Spot treatments using hand-held equipment **DO NOT** require a spray buffer zone.

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) and estuarine/marine habitats.

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		1	0	1	1	1
Aerial sprayer	Spring wheat, durum wheat, winter wheat	Fixed wing	4	0	1	1	70
		Rotary wing	1	0	1	1	55

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 (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that GF-3538 Herbicide is both a Group 2 and a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to GF-3538 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-3538 Herbicide or other Group 2 and 4 herbicides 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.

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- 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.

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.

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