

2024-5570, 2024-12-01

GROUP	2	HERBICIDE
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NC-00439 HERBICIDE

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

SOLUBLE GRANULES

COMMERCIAL

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

ACTIVE INGREDIENT: Tribenuron-methyl 42.9%
Metsulfuron-methyl 8.6%

WARNING – CONTAINS THE ALLERGENS SULFITES AND MILK

REGISTRATION NO. 29929 PEST CONTROL PRODUCTS ACT

CAUTION



POISON

WARNING: EYE IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 0.20 - 600 KG

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

2024-5570, 2024-12-01

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- WARNING – EYE IRRITANT
- Potential skin sensitizer
- DO NOT apply by air
- Do not contaminate any body of water.
- May be harmful if swallowed, inhaled or absorbed through skin.
- Avoid breathing spray mist. Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.
- 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 face shield) during mixing, loading, clean-up and repair.
- When using, do not eat, drink or smoke.
- Wash thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use
- When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.
- DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
- Apply only to agricultural crops when the 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 inversions, application equipment, and sprayer settings.

ENVIRONMENTAL PRECAUTIONS:

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

FIRST AID:

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.

2024-5570, 2024-12-01

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 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 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.

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

IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Store this product away from food or feed.

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

DISPOSAL:

For 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.

2024-5570, 2024-12-01

For 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 returnable containers:

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

Disposal of unused, unwanted product::

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.

2024-5570, 2024-12-01

<<DFU Booklet>>

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2024-5570, 2024-12-01

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Disposal of unused, unwanted product:

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.

DIRECTIONS FOR USE

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.

DO NOT apply by air.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

IMPORTANT

PRODUCT DESCRIPTION:

NC-00439 Herbicide provides control of certain broad-leaved weeds in summerfallow, as a post-harvest treatment and on fields to be planted to wheat (spring, durum and winter), spring barley and oats. NC-00439 Herbicide contains two active ingredients formulated as water soluble granules. It is non-corrosive, non-flammable, non-volatile and does not freeze. NC-00439 Herbicide is to be applied as a uniform broadcast spray using water as a carrier. **APPLY WITH GROUND EQUIPMENT ONLY.**

Warm, moist growing conditions promote active weed growth and enhance the activity of NC-00439 Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. NC-00439 Herbicide may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

NC-00439 Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

2024-5570, 2024-12-01

DO NOT APPLY NC-00439 HERBICIDE WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

Buffer zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

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 shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Buffer Zones (metres) Required for the Protection of:		
	Terrestrial Habitat*	Aquatic Habitats of Depths:	
		< 1 m	> 1 m
Field sprayer	4	1	1

* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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.

IMPORTANT INFORMATION: READ BEFORE USING

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, recreational grounds or similar areas.
- Prevent drift of spray to desirable plants.
- Do not contaminate any body of water, including irrigation water that may be used on other crops.
- Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat, spring barley and oats.
- DO NOT APPLY BY AIR.

2024-5570, 2024-12-01

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than wheat (spring, durum and winter), spring barley or oats.

RECROPPING INTERVALS:

Fields treated with NC-00439 Herbicide may be seeded to wheat (spring, durum or winter), spring barley or oats a minimum of 24 hours after application.

The following crops may be seeded 10 months after application: Canola, dry beans, faba beans, field corn, flax, lentils, peas and soybeans.

Fields treated with a post-harvest application of NC-00439 Herbicide in the fall may be seeded in the spring to wheat (spring or durum), spring barley or oats, or fields may be summerfallowed.

Make only one application of NC-00439 Herbicide per season.

CONTROL OF BROADLEAF WEEDS AND GRASSES PRE-SEED TO WHEAT (SPRING, DURUM OR WINTER), SPRING BARLEY AND OATS, IN SUMMERFALLOW AND POST-HARVEST

With any summerfallow or post-harvest treatment, allow at least 10 days to elapse between treatment and tillage.

Only weeds emerged at time of application will be controlled. Weeds must be actively growing at time of application or control may be reduced.

Fields treated with NC-00439 Herbicide can be seeded to wheat (spring, durum or winter), spring barley or oats a minimum of 24 hours after application.

Apply NC-00439 Herbicide at 17.5 grams per hectare, tank mixed with glyphosate (present as potassium salt, isopropylamine salt or ammonium salt) and adjuvant (where required) in a total spray volume of 55-110 L/ha.

2024-5570, 2024-12-01

Tank mixes not requiring surfactant:

Companion Herbicide	Application Rate (grams acid equivalent per hectare)	Application Stage	Weeds Controlled	Weeds Suppressed *
glyphosate (present as potassium salt, isopropylamine salt or ammonium salt)	450 g ae/ha	Up to 8 cm	Canada fleabane, cleavers ^R , common ragweed, narrow leaved hawk's beard ^R , scentless chamomile	Night flowering catchfly
		1-6 leaf	Chickweed,	Wild Carrot
		Up to 10 cm		Tufted Vetch
		Up to 15 cm	Dandelion ^R , downy brome, flixweed, giant foxtail, green foxtail, hemp nettle, kochia, lady's thumb, lamb's-quarters, Persian darnel, redroot pigweed, Russian thistle, stinkweed, volunteer barley, volunteer canola ^R (including glyphosate-tolerant), volunteer flax, volunteer wheat, wild mustard, wild oats	
		Up to 3-leaf	Cow cockle, wild buckwheat	Canada thistle
		Rosette	White cockle	

Tank mixes requiring surfactant:

glyphosate (present as potassium salt, isopropylamine salt or ammonium salt)	270 g ae/ha	Seedlings and rosettes		Narrow-leaved hawk's beard
		Rosettes		
plus Agral* 90	0.35% v/v	Up to 8 cm	Green foxtail, lady's thumb, stinkweed, volunteer barley, volunteer wheat, wild buckwheat (1-3 leaf), wild mustard, wild oats (1-3- leaf)	
		Up to 10 cm	kochia, lamb's-quarters,	Redroot pigweed, Russian thistle

		Up to 15 cm	Volunteer canola ^R (including glyphosate tolerant)	
glyphosate (present as potassium salt, isopropylamine salt or ammonium salt) plus Agral* 90	360 g ae/ha 0.35 % v/v	Rosettes (non-flowering)	Dandelion ^R (top growth)	Canada thistle (top growth)

* Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

^R Residual Control

RESIDUAL WEED CONTROL RECOMMENDATIONS:

For residual control or suppression of cleavers, dandelion, narrow leaved hawk's beard and volunteer canola (including glyphosate tolerant canola), apply NC-00439 Herbicide with a recommended glyphosate herbicide as directed above. Degree and duration of residual control will depend on environmental conditions at and following treatment and weed infestation levels.

Consult the respective glyphosate herbicide label for use precautions and other weeds controlled by the glyphosate herbicide.

MIXING INSTRUCTIONS

1. Always start with a clean and empty sprayer tank.
2. Fill the tank ½ full of **clean** water.
3. With the agitator running, add the required amount of NC-00439 Herbicide. Continue to agitate for a minimum of 5 minutes to ensure that NC-00439 Herbicide is **completely** dissolved.
4. Make sure there are no un-dissolved granules, and then add the required amount of the tankmix partner while maintaining agitation.
5. If the tank mix partner is an Emulsifiable Concentrate (EC), reduce agitation to avoid inducing an invert emulsion.
6. Add the rest of the water. Use a minimum spray volume of 55 L/ha.
7. If required for the tank mixture, add surfactant. If an antifoam agent is required, add last.
8. Refer to the section Specific Tank Mix Directions for mixing order and other mixing instructions.

2024-5570, 2024-12-01

9. For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume **or less** before proceeding with step 1, because remaining chemicals may prevent NC-00439 Herbicide granules from completely dissolving. If this is not possible, pre-slurry NC-00439 Herbicide in a small amount (5-10 L) of water before adding to the tank.

Once dissolved, NC-00439 Herbicide will not settle out, even if the sprayer is parked for long periods of time. Spray preparation should be used within 24 hours or product degradation may occur.

SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS (INDUCTION DEVICES FOR CLOSED SYSTEM LOADING OF SPRAYERS)

1. Ensure the chemical handler is clean (rinsed with ammonia).
2. For best results, add NC-00439 Herbicide to the top of the tank.
3. If a chemical handler is used, make sure that all of the granules of NC-00439 Herbicide are completely dissolved and injected into the main tank with agitation before adding other chemicals.
4. Low water volumes in some chemical handlers can cause the water to become saturated with NC-00439 Herbicide, leaving un-dissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.
5. Always dissolve the NC-00439 Herbicide granules with agitation in the main tank before adding a tank mix partner.

NOTE: Follow the clean-out procedure recommended for sprayer tanks for the chemical handler.

TANK MIX INSTRUCTIONS

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 FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

EQUIPMENT-SPRAY VOLUMES

2024-5570, 2024-12-01

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon).

Once NC-00439 Herbicide is in solution, it will not settle out. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles. Do not apply with more than 275 kPa spray pressure.

SPRAYER CLEANOUT

To avoid subsequent injury to crops other than wheat, spring barley or oats, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of NC-00439 Herbicide from mixing and spray equipment as follows:

1. Drain tank and flush tank, boom and hoses with clean water.
2. Visually inspect tank to ensure removal of all visible herbicide residues. If necessary, repeat Step 1.
3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) per 100 litres of water, or equivalent amount of a sprayer tank cleaner containing ammonia.
4. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
5. Drain the tank.
6. Remove the nozzles, screens, and boom end caps and clean separately in a bucket containing ammonia cleaning agent and water.
7. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

NOTE: When using a chemical handler, follow the above cleanout procedure for this piece of equipment.

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

USE PRECAUTIONS:

- Do not use more than 17.5 grams per hectare per year.
- If using other herbicides containing the active ingredient metsulfuron methyl, restrict total use of metsulfuron methyl to 1.5 grams active ingredient per hectare per year.
- Do not apply to irrigated land where tail water will be used to irrigate other crop land.
- Do not contaminate irrigation water.
- Do not apply within 1 meter of a body of water.
- Do not apply to frozen ground where surface runoff may occur.
- Do not apply to a crop undersown with legumes or grasses as injury to the forage may result.
- Do not use on highly variable soils that have large gravely or sandy areas, eroded knolls or calcium deposits.
- NC-00439 Herbicide applied to fields to be planted to spring wheat, durum wheat, winter wheat, barley or oats that are stressed by severe conditions such as drought, low fertility, saline soils, waterlogged soils (soils at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury, grade or yield loss.
- Heavy rainfall soon after application may result in visual crop injury or possible yield reduction. Conditions such as thin crop stand, sandy soil or low soil organic matter may increase the severity of injury.

2024-5570, 2024-12-01

- Heavy rainfall immediately after application may wash the herbicide off the foliage, which may reduce the effectiveness of NC-00439 Herbicide. Do not apply if rain is forecast for the time of application
- Do not remove soil from treated fields for use on lawns, in gardens or for backfill.
- Control of weeds growing in wheel tracks may be reduced if NC-00439 Herbicide is applied under dry, dusty conditions.

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 FMC at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, NC-00439 Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to NC-00439 Herbicide and other Group 2 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 NC-00439 Herbicide or other Group 2 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.
- ◆ 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 your local FMC representative or the FMC hotline at 1-833-362-7722 for further information.

2024-5570, 2024-12-01

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Trademark of FMC Corporation or an affiliate.

* All other products mentioned are trademarks of their respective companies.