

2024-0086
2025-09-10

Case/Label

GROUP	3	15	HERBICIDE
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GARRISON LIQUID EC HERBICIDE

A selective herbicide for preplant weed control in oilseed and pulse crops.
Emulsifiable Concentrate

Warning, contains the allergen soy.

COMMERCIAL (AGRICULTURAL)

WARNINGS



POISON

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

REGISTRATION NO. 35626 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS: Triallate 580 g/L
 Trifluralin 350 g/L

NET CONTENTS: 10L – BULK

**Gowan Company, L.L.C.
P.O. Box 5569
Yuma, AZ 85366-5569**

1-800-960-4318

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN
COMBUSTIBLE
MAY BE FATAL IF SWALLOWED.

Do not use, pour, spill or store near heat or flame. Do not take internally.

Wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, during clean-up and repair, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides. Gloves are not required during application within a closed cab.

Closed mixing/loading systems are required. A closed system means removing a pesticide from its original container, rinsing, mixing, diluting, and transferring the pesticide through connecting hoses and couplings that prevent exposure to the pesticide.

During application, use a closed cab that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

DO NOT handle more than 189 kg a.i./day (326 L for Garrison Liquid EC Herbicide).

DO NOT apply by air.

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.

Restricted-Entry Interval

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

FIRST AID

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.

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

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL 1-888-478-0798.
In case of FIRE, use water spray, foam, dry chemical or CO₂.

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TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Treat symptomatically.

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, endotracheal and/or oesophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

ENVIRONMENTAL PRECAUTIONS:

This product contains active ingredients and aromatic petroleum distillates, which are toxic to aquatic organisms. Toxic to non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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.

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.

To minimize the release of trifluralin and triallate into the environment due to volatilization, Garrison Liquid EC Herbicide should only be applied when soil temperatures are 4°C or lower and air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with application.

STORAGE

Store this product away from food or feed.

DO NOT FREEZE. Store GARRISON LIQUID EC Herbicide in heated storage. Active ingredient crystallization may occur at temperatures below 5°C. If stored below 5°C, check for crystals in the bottom of each container. If crystals are present, place the container in a warm area (at least 15°C) for several hours. For smaller containers, agitate contents by inverting several times and return it to the upright position. For larger containers, circulate contents. After several hours, if any crystals remain, agitate or circulate container contents again. Ensure any crystals are dissolved before adding to spray tank.

Keep Garrison Liquid EC Herbicide container closed to prevent spills, evaporation and contamination. Avoid contamination of seed, feed and foodstuffs.

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

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- 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 or territorial requirements.

Returnable containers:

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Refillable containers:

Disposal of container: 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.

Disposal of unused, unwanted product: For information on the disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup 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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Booklet

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NOTICE TO USER

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GENERAL INFORMATION

Garrison Liquid EC Herbicide is an emulsifiable concentrate formulation recommended for weed control in Canola, Flax (fall only), Lentil (fall only), Mustard (all types), and dry peas only. Other crops should not be treated with this product because injury may occur.

This product can be either fall or spring applied according to the recommendations on this label.

This herbicide should be applied on the soil and incorporated before weeds germinate. If weeds have emerged prior to application, they must be controlled by tillage or via preseeding burn-off herbicide is required (refer to the appropriate product labels). Garrison Liquid EC Herbicide will not control emerged weeds.

Application equipment must be properly calibrated. Application of an excessive rate of Garrison Liquid EC herbicide may injure the crop, whereas application of too low a rate may result in poor weed control. Before applying this product, be sure the soil is in good working condition. Clay soils may require additional tillage to obtain good tilth. Application to a field which is wet, lumpy, rough or ridged will result in reduced weed control. See the "Field Preparation" section for additional information.

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The incorporation of this product in to the soil must be completed as soon as possible on the day of application. The incorporation should not be deeper than 5 cm, as deeper incorporation tends to dilute the product resulting in reduced weed control. See the "How to Incorporate" section for additional information.

When using Garrison Liquid EC herbicide, an untreated strip should be left for proof of results. Weed control may be evaluated by removing a surface 2.5 to 5 cm of soil at the time of germination to inspect the number of weeds that were killed. This product is primarily absorbed by germinating shoots from the treated layer of the soil. Weeds are usually controlled before they emerge through the soil. Occasionally, and particularly under dry conditions and/or cool soil temperatures, some weeds may emerge and reach the 3 to 4 leaf stage before dying.

Rainfall of at least 1.5 cm within 2 weeks after application in the spring is required to ensure maximum performance of the spring treatment.

Under conditions of prolonged cool soil temperatures at the time of germination, or extreme drought in spring, this product may not maintain the usual high standard of weed control.

CAUTION: DO NOT graze the treated crops or cut for hay.

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.

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 finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Boom height must be 60 cm or less above the crop or ground.

SPRAY BUFFER ZONES

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), 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/Site	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Canola, flax, lentil, mustard, and dry peas	80	10	5	3	5

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 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.

MIXING AND APPLICATION INSTRUCTION

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. Always predetermine the compatibility of this product with a sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. If large flakes, sludge, gel or other precipitates occur, do not use the carrier with this product in the same spray tank.

Apply Garrison Liquid EC Herbicide, or the labelled tank mixture in a minimum of 90 litres of water or sprayable fluid fertilizer carrier (such as 28-0-0) per hectare as a broadcast treatment.

Spraying during winds above 16 kilometres per hour will result in a loss of this product or the labelled tank mixture and may result in less than optimum weed control.

Mix this product or the tank mixture with the appropriate carrier as follows:

1. Fill the tank approximately three-quarters full with carrier.
2. Carefully add the proper amount of this product or the tank mixture while mixing.
3. Complete filling the sprayer tank with carrier. Remove the hose from the tank immediately to avoid siphoning back into the carrier source. Maintain good agitation at all times until the contents of the tank are sprayed.

NOTE: If spray mixture is allowed to settle at anytime, thorough agitation is required to resuspend the mixture before spraying is resumed. The sprayer by-pass valve should be in operation before and during application.

4. Before spraying, check all hose connections to see that they are properly secured. Adjust the height of the spray boom in the field to ensure an even distribution of the product on the soil. Avoid overlapping of the spray. Overlapping will double the recommended rate and crop injury may result. Pressure should not be above 200 kPa and just high enough to provide a uniform spray pattern. Boomless sprayers should not be used as the distribution of Garrison Liquid EC herbicide will be uneven. Flush the sprayer with clean water after use.

Promptly change clothing which becomes wetted by accidental spillage or drift from spray.

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Wash clothing before reuse.

TANK MIXING

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 Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

FIELD PREPARATION

Before applying this product be sure the soil is in good working condition. All tillage operations must be completed prior to application of this product. Application of this product to soil which has 30% or greater trash cover will result in less than optimum weed control. If excessive trash is present, additional tillage will be necessary to reduce the trash cover to an acceptable level before application.

If the soil is excessively wet or lumpy, making proper incorporation will be difficult, cultivation with suitable tillage equipment may be required before application and incorporation to improve the soil condition. If ridging is a problem, suitable tillage is recommended prior to application to eliminate the ridging and ensure uniform distribution of the herbicide.

HOW TO INCORPORATE

This product must be incorporated into the soil, using suitable tillage equipment, in order to provide weed control. A single incorporation pass using heavy harrow type equipment can be sufficient provided a thorough mixing of product in the soil occurs. Incorporation should be completed as soon as possible on the day of application. Where a single incorporation pass provides insufficient mixing in the soil, a second incorporation pass may or may not be done immediately thereafter, depending upon the timing of the application. See the "Fall Incorporation" and "Spring Incorporation" sections of this label for additional information.

Do not incorporate this product more than 5 cm. This can be accomplished by setting the incorporation equipment to work the soil no deeper than 7.5 cm to 10 cm. Shallow incorporation is necessary to prevent dilution of the product and to ensure good weed control.

With a single incorporation pass, ensure soil compaction does not prevent adequate depth penetration and/or that trash accumulation does not prevent adequate mixing of product in the soil. Light harrowing does not provide effective incorporation if compact soil prevents penetration of harrow teeth or if trash accumulates in the harrow sections or if harrows bounce.

FALL INCORPORATION

This product must be incorporated as described in the "How to Incorporate" section of this label.

For fall applications, only one incorporation is required in the fall. A second incorporation may be done either in the fall (prior to soil freeze-up) or in the spring to ensure thorough mixing and

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to improve weed control. See the "Spring Incorporation" section for additional information.

SPRING INCORPORATION

Before Seeding

This product must be incorporated as described in the "How to Incorporate" section of this label.

This product may be incorporated prior to the seeding of any labelled crop. See the "Directions for Use" section for exceptions.

A second incorporation may be conducted any time until crop emergence if required. Where a second incorporation is conducted after seeding, a harrow or other suitable tillage equipment adjusted to a depth so as not to disturb the seed should be used.

If ridging is a problem after seeding, one harrowing is recommended to eliminate the ridging and ensure uniform distribution of the herbicide.

CROP APPLICATION INFORMATION

The recommended higher rates of this product should be used in soils with greater than 4% organic matter content.

DO NOT apply more than one application per year.

WEEDS

Weeds Controlled	
Annual Grasses: Annual blue grass Barnyard grass Brome grass Crab grass Downy brome Foxtail, green* Foxtail, yellow Persian Darnel Wild oats	Annual Broadleaves: Carpetweed Chickweed Cow cockle Knotweed Lamb's quarters Purslane Redroot Pigweed Wild buckwheat

Weeds Suppressed
Annual Broadleaves: Kochia

*Garrison Liquid EC Herbicide will not control trifluralin tolerant green foxtail.

FALL TREATMENT – CROPS AND APPLICATION RATES

Fall applications of this product must be made after October 1 and until soil freeze-up. Applications made before October 1 may result in reduced effectiveness of the herbicide. See the "Field Preparation" and "How to Incorporate" sections of this label for additional information.

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GARRISON LIQUID EC HERBICIDE RATES (L/ha) -- FALL TREATMENT		
Crop	Organic Matter	
	2-4%	> 4%
Canola, Flax (fall only)**, Lentil (fall only), Mustard (all types), Peas (dry)	2	2.5

** not including low linolenic acid varieties

SPRING TREATMENT – CROPS AND APPLICATION RATES

Garrison Liquid EC Herbicide can be applied immediately prior to or up to three weeks before planting. See the "Field Preparation" and "How to Incorporate" sections of this label for additional information.

GARRISON LIQUID EC HERBICIDE RATES (L/ha) – SPRING TREATMENT		
Crop	Organic Matter	
	Less than 4%	Greater than 4%
Canola, Mustard (all types), Peas (dry)	2	2.5

APPLICATION CAUTION

ROTATIONAL CROP

- Applied and incorporated according to label directions, Garrison Liquid EC Herbicide will not harm rotational crops. However, seedling disease, cold weather, deep planting, excessive moisture, high salt concentrations, soil compaction or drought may weaken seedlings and increase the risk of injury, which may result in delayed crop development or reduced yields.
- As a precaution, oats, sugar beets and small-seeded grasses such as timothy, canaryseed grass and creeping red fescue should not be grown in rotation following a crop treated with Garrison Liquid EC Herbicide
- The persistence of Garrison Liquid EC Herbicide is influenced by soil moisture and the majority of breakdown occurs during the growing season. If drought or extended dry periods were present in the previous year, higher levels of Garrison Liquid EC Herbicide may be present in the soil. To reduce the possibility of injury to rotational crops, seed shallow into a warm moist seedbed using recommended agronomic practices and seeding depths. As an additional safety precaution seeding rate may be increased slightly (10%).
- **Western Canada Only** - Do not seed wheat as a rotational crop on land if trifluralin and/or ethalfluralin has been used at an oilseed/special crop/barley rate for two consecutive crops.
- **Western Canada Only** - Do not direct seed (zero till) a rotational crop into standing

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stubble on land that has been treated with trifluralin or ethalfluralin for the previous crop. A cultivation prior to seeding of the rotational crop is strongly recommended to help aerate the soil and promote seedbed conditions which will enhance seed germination.

- When seeding a rotational crop, use good quality certified seed. Seed shallow into a warm, moist firm seedbed using recommended agronomic practices which will promote rapid and even crop germination and emergence. **Avoid deep seeding, loose seedbeds and seeding into cold soils.**
- Each crop has a specific seeding depth requirement and seeding deeper than recommended can increase the potential risk of damage to the seedling. Refer to industry or government extension published documents which outline recommended seeding practices/depths for each crop.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Garrison Liquid EC Herbicide is a Group 3 and 15 herbicide. Any weed population may contain or develop plants naturally resistant to Garrison Liquid EC Herbicide and other Group 3 and 15 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 Garrison Liquid EC Herbicide or other Group 3 and 15 herbicides 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 Gowan Company at 1-800-960-4318.