

2024-1227
2024-05-01

Container Label

GROUP	2	HERBICIDE
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Lone Wolf™ Herbicide

Solution

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY ON **Clearfield® or Imazamox tolerant** WHEAT (WHEAT VARIETIES WITH THE **Clearfield or Imazamox tolerant** TRAIT), AND FIELD PEAS

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Imazamox120 g/L (present as ammonium salt)

REGISTRATION NO. 34517 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 0.5 L - Bulk

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

ACETO LIFE SCIENCES, L.L.C.
4 Tri Harbor Court
Port Washington, New York
USA 11050
516-627-6000

(Back Panel of the Jug)

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DO NOT apply by air.

Harmful if absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.

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.

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.

ENVIRONMENTAL PRECAUTIONS

TOXIC to non-target terrestrial plants. 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 demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of Lone Wolf Herbicide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

FIRST AID

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 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

Store this product away from food or feed.

Store above 5°C.

Store in a cool, dry place away from children, animals, food, feed or fertilizers.

Keep from freezing.

DISPOSAL

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/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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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Booklet

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ACETO LIFE SCIENCES, L.L.C.
4 Tri Harbor Court
Port Washington, New York
USA 11050-4661
516-627-6000

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

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FOR Clearfield® or Imazamox tolerant WHEAT (Wheat varieties with the Clearfield or Imazamox tolerant trait)

DIRECTIONS FOR USE (Prairie Provinces and Interior of British Columbia (Including the Peace River Region))

Lone Wolf Herbicide is a selective herbicide that can be applied as an early post-emergent treatment in **Clearfield or Imazamox tolerant** Wheat varieties. **Clearfield or Imazamox tolerant** Wheat varieties are tolerant of imazamox, the active ingredient in Lone Wolf Herbicide. Wheat varieties that are not designated as having the **Clearfield or Imazamox tolerant** trait may be

damaged or destroyed by this treatment. When Lone Wolf Herbicide is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Lone Wolf Herbicide may also be applied as an early post-emergence treatment in field peas when applied in tank mix with Basagran Forte Herbicide. DO NOT apply to field peas that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold weather or injury from prior herbicide applications, as crop injury may result.

Apply using ground equipment only. DO NOT apply by air.

Do not apply more than once per year.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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

DO NOT graze the treated crop within 14 days of application or cut for hay within 42 days of application.

DO NOT graze treated field peas or cut for hay within 20 days of application.

Pre-harvest Interval: Wheat grain and straw can be harvested 79 days after treatment. After 60 days, field peas can be harvested.

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 S752.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Spray 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

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).

Method of Application	Crop	Spray Buffer zones (metres) Required for the Protection of Terrestrial Habitat
Field sprayer	Wheat and peas (dried field)	1

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.

CROP: Clearfield® or Imazamox tolerant WHEAT (Wheat varieties with the Clearfield or Imazamox tolerant trait)

BROADLEAF WEED AND GRASS CONTROL

Application should be made from the 2 to the 6 leaf stage of wheat crop and after the weeds have emerged. To control broadleaf weeds apply Lone Wolf Herbicide from the cotyledon up to the 4 leaf stage. To control grasses apply Lone Wolf Herbicide from the 1-4 true leaf stage up until early tillering. Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury will occur as a result of spray overlap. AVOID SPRAYER OVERLAP.	
Lone Wolf Herbicide at 125 mL product/ha (15 g a.e./ha) will control:	
Lamb's-quarters* Stinkweed Wild mustard	Volunteer spring wheat (non- Clearfield or non- Imazamox tolerant wheat)
Lone Wolf Herbicide at 167 mL product/ha (20 g a.e./ha) will control:	
Barnyard grass Cleavers* Cow cockle Green foxtail Green smartweed Japanese Brome Grass* Lamb's-quarters* Persian darnel Redroot pigweed Round-leaved mallow* Russian thistle* Shepherd's purse Stinkweed	Volunteer barley Volunteer canary seed Volunteer canola (non- Clearfield or non- Imazamox tolerant canola only) Volunteer durum wheat Volunteer spring wheat (non- Clearfield or non- Imazamox tolerant wheat) Volunteer tame oats Wild buckwheat* Wild mustard Wild oats Yellow foxtail

* = suppression only

Apply in 50-100 L/ha of water with a NON-IONIC SURFACTANT (e.g., AGRAL® 90, or AG-SURF®) at the rate of 0.25% v/v.

MIXING INSTRUCTIONS

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure. Add the required amount of Lone Wolf Herbicide into the sprayer through the tank opening and continue agitating. After the herbicide is thoroughly mixed, continue agitation and add the required amount of nonionic surfactant. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT®). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again. Between loads of Lone Wolf Herbicide, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying Lone Wolf Herbicide, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

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 Aceto Life Sciences, L.L.C at 516-627-6000 for information before applying any tank mix that is not specifically recommended on this label.

To provide broad-spectrum weed control, Lone Wolf Herbicide may be tank-mixed with the following tank-mix partners.

Lone Wolf Herbicide + 2,4-D Ethylhexyl Ester		
Location	Prairie provinces and Interior of British Columbia (Including the Peace River Region)	
Crops	Clearfield or Imazamox tolerant Wheat	
Timing	Post-emergent application from the 2 to 6-leaf stage of crop	
Tank Mix Components	Lone Wolf Herbicide	15 g ae/ha (125 mL product/ha) or 20 g ae/ha (167 mL product/ha)
	2,4-D Ester	560 g ae/ha
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, or AG-SURF)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	This tank-mix combination controls all weeds as listed on the Lone Wolf Herbicide and 2,4-D Ester herbicide labels.	

Lone Wolf Herbicide + Starane™ or Starane II Herbicide	
Location	Prairie provinces and Interior of British Columbia (Including the Peace River Region)
Crops	Clearfield or Imazamox tolerant Wheat

Timing	Post-emergent application from the 2 to 6 true leaf stage of crop	
Tank Mix Components	Lone Wolf Herbicide	20 g ae/ha (167 mL product/ha)
	Starane or Starane II Herbicide	0.6 L /ha Starane or 0.31 L/ha Starane II
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, or AG-SURF)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	<p>In addition to the control of weeds as listed on the Lone Wolf Herbicide label, this tank-mix combination controls kochia (including Group 2 resistant), volunteer flax and cleavers (including Group 2 resistant), and provides suppression of stork's bill.</p> <p>Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury and a delay in maturity may occur as a result of over spray. AVOID SPRAYER OVERLAP.</p>	

Lone Wolf Herbicide + Starane™ or Starane II Herbicide + MCPA Ester		
Location	Prairie provinces and Interior of British Columbia (Including the Peace River Region)	
Crops	Clearfield or Imazamox tolerant Wheat	
Timing	Post-emergent application from the 3 to 6 true leaf stage of crop	
Tank Mix Components	Lone Wolf Herbicide	20 g ae/ha (167 mL product/ha)
	Starane or Starane II Herbicide	0.6 L /ha Starane or 0.31 L/ha Starane II
	MCPA Ester	560 g ae/ha (500 g/L formulation: 1.12 L product/ha) (600 g/L formulation: 0.93 L product/ha)
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, or AG-SURF)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	<p>This tank-mix combination controls cow cockle, wild buckwheat and common chickweed (non-Group 2 resistant biotypes) in addition to all weeds as listed on the Lone Wolf Herbicide label plus weeds as listed on the Starane Herbicide label for the tank-mix of Starane Herbicide plus MCPA Ester.</p> <p>Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury and a delay in maturity may occur as a result of over spray. AVOID SPRAYER OVERLAP.</p>	

Lone Wolf Herbicide + MCPA Ester		
Location	Prairie provinces and Interior of British Columbia (Including the Peace River Region)	
Crops	Clearfield or Imazamox tolerant Wheat	
Timing	Post-emergent application from the 3 to 6 true leaf stage of crop	

Tank Mix Components	Lone Wolf Herbicide	20 g ae/ha (167 mL product/ha)
	MCPA Ester	560 g ae/ha – 630 g ae/ha (500 g/L formulation: 1.12 – 1.26 L product/ha) (600 g/L formulation: 0.93 – 1.05 L product/ha)
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, or AGSURF)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	This tank-mix combination controls all weeds as listed on the Lone Wolf Herbicide label plus weeds as listed on the MCPA Ester label. Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury and a delay in maturity may occur as a result of over spray. AVOID SPRAYER OVERLAP.	

CROP: Peas (Dried Field)

Lone Wolf Herbicide + Basagran Forte Herbicide

Lone Wolf Herbicide may be applied as an early post-emergence treatment in peas (dried field) when applied in tank mix combination with Basagran Forte Herbicide.

Follow all recommendations, precautions and restrictions on the tank-mix partner label.

Treated crops are not to be grazed or cut for hay.

Timing	Early post-emergence	
Rate	167 mL/ha Lone Wolf Herbicide + 894 mL/ha Basagran Forte Herbicide + 2 L/ha nitrogen source* (UAN 28%)	
Water Volume	100 L/ha	
Weeds Controlled	This tank-mix combination will provide control of weeds as listed in the Broadleaf Weed and Grass Control section of this label. The addition of 894 mL/ha of Basagran Forte Herbicide will provide control of the following additional weeds:	
	Control	Suppression
	Volunteer Clearfield canola	Wild buckwheat
	Wild mustard (Group 2 resistant)	

Remark	Application should be made from the 3 - 6 node stage of field peas and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to 4-leaf stage and when grassy weeds are at the 1 - 4 true leaf or early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.
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*Nitrogen source: A reduction in grass control can be observed without the addition of a nitrogen source (UAN 28%).

TANK-MIXING INSTRUCTIONS

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure. Add the required amount of Lone Wolf Herbicide and tank-mix partner into the sprayer through the tank opening and make sure it is thoroughly mixed. Continue agitation and add the required amount of non-ionic surfactant. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again. Between loads of Lone Wolf Herbicide and its tank-mix partner, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying Lone Wolf Herbicide and its tank-mix partner, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

FOLLOW CROPPING

Winter wheat can be planted 3 months after treatment (3 MAT) as a rotational crop.

Initial crop injury to **non-Clearfield or non-Imazamox tolerant** canola may be observed. Avoid spray overlap as yield reduction may result. The following crops may be grown safely the year following an application:

- Field peas
- Field corn
- Canary seed
- Clearfield or Imazamox tolerant** Canola (canola varieties with the **Clearfield or Imazamox tolerant** trait)
- Non-**Clearfield or non-Imazamox tolerant** canola
- Lentils
- Spring wheat
- Durum wheat
- Spring barley
- Sunflower
- Tame oats
- Flax
- Chickpea

The following crop may be grown safely two years following an application:

Mustard (condiment type only)

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Lone Wolf Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Lone Wolf 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 Lone Wolf 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 Aceto Life Sciences, L.L.C at 516-627-6000.

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