

(Container)



Lontrel™ SG Herbicide

GROUP	4	HERBICIDE
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**FOR THE CONTROL OF CANADA THISTLE, WILD BUCKWHEAT AND PERENNIAL SOW THISTLE
(TOP GROWTH CONTROL) IN CANOLA**

FOR SALE FOR USE IN WESTERN CANADA ONLY

AGRICULTURAL

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

GUARANTEE: clopyralid 75%
(present as potassium salt)
soluble granular

REGISTRATION NO. 27306 PEST CONTROL PRODUCTS ACT

**CAUTION - POISON
EYE IRRITANT**

NET CONTENTS: 800 g - Bulk

Corteva Agriscience Canada Company
Suite 240, 115 Quarry Park Rd. SE
Calgary, AB
T2C 5G9
1-800-667-3852

™ Trademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS

CAUTION - EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN

DO NOT APPLY BY AIR

Avoid contact with eyes, skin and clothing. Harmful if inhaled. Avoid inhaling/breathing dust, vapours or spray mist.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

Workers must wear clean, body-covering coveralls over long pants, a long-sleeved shirt and chemical-resistant gloves. Goggles or a face shield are required during mixing and loading. Gloves are not required to be worn during groundboom applications but are required for mixing/loading, clean-up and repair.

Do not enter or allow workers entry into treated areas for 12 hours following application to all crops.

At Completion of Spraying or End of the Day: Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. 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.

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. 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.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

ENVIRONMENTAL HAZARDS

TOXIC to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (for example, sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (for example, soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

AGRICULTURAL CHEMICAL

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

STORAGE

Store away from food, feedstuff, fertilizer, seeds, insecticides, fungicides or other pesticides or herbicides intended to be used on crops sensitive to Lontrel SG Herbicide. Store in heated storage; if product is frozen, bring to room temperature and agitate before use.

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 requirements.

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.

(Booklet)



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AGRICULTURAL CHEMICAL

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

STORAGE

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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).

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

VEGETATION AND CROP PRECAUTIONS

Do not use in greenhouses.

Sensitive Plants

Do not apply Lontrel SG Herbicide directly to, or otherwise permit it to come into contact with sunflowers, legumes (such as peas, beans, lentils or alfalfa), fruit or vegetable crops, flowers or other desirable broadleaved plants. Take precautions to prevent spray mists containing Lontrel SG Herbicide to drift onto the above plants. Residues of Lontrel SG Herbicide can remain in the soil following the year of use, thereby affecting growth of sensitive crops.

Non-Target Sites

Avoid contamination of non-target land, water or irrigation ditches. Do not use Lontrel SG Herbicide in the following areas: standing or flowing water; the inner banks or bottoms of irrigation ditches; in areas where surface water can run off to adjacent croplands either planted or to be planted to sensitive crops.

Crop Rotation

Fields previously treated with Lontrel SG Herbicide can be seeded the following year to wheat, barley, oats, rye (not underseeded with legumes, clover or alfalfa), forage grasses, flax, canola, mustard or can be summerfallowed.

Do not seed to crops other than those listed above in the calendar year following treatment.

Tank Mixtures

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Corteva Agriscience Canada Company at 1-800-667-3852 or www.corteva.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

Grazing and Harvesting for Feed

Crops or areas treated with this product may be grazed immediately following treatment.

Manure and Straw

Residues of the herbicide occurring in the straw may be harmful to susceptible plants; therefore, do not use straw or crop residue from treated crops for composting or mulching susceptible broadleaved crops. If the straw or crop residue is used for animal bedding or feed, return the manure to fields to be planted to clopyralid tolerant crops such as wheat, oats, rye, forage grasses, canola or flax. Do not grow susceptible crops such as peas, beans, lentils, potatoes, sunflowers or other sensitive crops on land which has been mulched with straw containing Lontrel SG Herbicide residues within the last 12 months.

SPRAY EQUIPMENT AND CONTAINER PRECAUTION

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

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

DO NOT APPLY BY AIR.

To Reduce Spray Drift:

1. Use nozzles that deliver higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 to 200 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/h or less.

Equipment Clean-Up

Equipment used to apply Lontrel SG Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Lontrel SG Herbicide dealer for detailed equipment cleaning procedure.

APPLICATION DIRECTIONS

Do not apply Lontrel SG Herbicide more than once per year.

Spray Preparation

To prepare the spray solution, add about half the desired amount of water to the spray tank, then with mechanical or bypass agitation, add the recommended amount of Lontrel SG Herbicide. Mix thoroughly in the tank. Finally with continued agitation, add the rest of the water.

DIRECTIONS FOR USE (Lontrel SG Herbicide alone)

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE.

CANOLA (Western Canada Only)

For use on Polish and Argentine varieties. Lontrel SG Herbicide should be diluted with water and applied at the 2 to 6 leaf stage of the crop to effectively control the weed species in the following table. For specific directions for control of only Canada thistle, see the Control of Canada Thistle section.

Weeds Controlled	Rate	For Optimum Results
Canada thistle (top growth)	200 g/ha	1. Treat when weeds are actively growing
Canada thistle wild buckwheat perennial sow-thistle (top growth)	267 g/ha	2. Use 100 to 200 L/ha spray solution for uniform coverage

NOTE: If the sprayer has been previously used to apply herbicides which contain 2,4-D or MCPA, it is imperative that the spray equipment be thoroughly cleaned before Lontrel SG Herbicide is mixed in the spray tank. Trace contamination of the spray solution with these herbicides will result in damage to the canola.

Control of Canada Thistle

For in crop control of top growth of Canada thistle, apply Lontrel SG Herbicide at the rate of 200g/ha. This will suppress top growth of Canada thistle for 6 to 8 weeks. Some regrowth may occur by the end of the season but this will not interfere with the harvesting of the crop.

For season long control of top growth of Canada thistle, apply Lontrel SG Herbicide at the rate of 267g/ha. This rate will generally provide season-long control of Canada thistle. Not all thistle roots will be killed and some regrowth may occur by the end of the growing season.

Applications of Lontrel SG Herbicide should be made when Canada thistle is in the rosette to pre-bud stage of growth. Best results are obtained when Canada thistle is actively growing and soil moisture is adequate for rapid growth. Under dry soil conditions and poor growing conditions, control of Canada thistle may be severely reduced. Applications of Lontrel SG Herbicide made after the Canada thistle flower has reached the purple bud stage will not provide satisfactory control.

TANK MIX COMBINATION - Lontrel SG Herbicide + Odyssey Herbicide in CLEARFIELD canola varieties

Lontrel SG Herbicide may be tank mixed with Odyssey Herbicide to control weeds in canola varieties tolerant to imidazolinone herbicides (CLEARFIELD canola). This tank mix will provide control of wild buckwheat, and top growth control of Canada thistle and perennial sowthistle in addition to weeds controlled by Odyssey Herbicide. Apply 200-267 g/ha Lontrel SG Herbicide with 29-42 g/ha of Odyssey Herbicide. Lontrel SG Herbicide at 200 g/ha will suppress top growth of Canada thistle for 6-8 weeks and at 267 g/ha will provide season-long control of Canada thistle and perennial sowthistle. Follow all relevant use directions including precautions, restrictions, and limitations on both tank-mix partner labels.

Mixing Instructions

Fill sprayer tank ½ full of water

1. Start sprayer agitation.
2. Add the required amount of Odyssey Herbicide and agitate for at least 10 minutes.
3. After Odyssey Herbicide has dissolved, add the required amount of Lontrel SG Herbicide and continue to agitate.
4. After the Lontrel SG Herbicide has dissolved, continue agitation and add Merge adjuvant at a rate of 0.5% v/v (0.5 L of Merge per 100 L of spray mixture).
5. Complete filling the spray tank with sufficient water to apply 100 L of spray mixture per hectare.

BUFFER ZONES

The 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, woodlots, hedgerows, riparian areas and shrublands).

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of Terrestrial Habitat
field sprayer	canola	2

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the label for those tank-mix partners.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Lontrel SG Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Lontrel SG Herbicide and other 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 Lontrel SG Herbicide or other Group 4 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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.

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