

(Container)



# Lontrel\* 360

## Herbicide

GROUP	4	HERBICIDE
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For control of perennial and annual broadleaved weeds in field crops, Christmas tree plantations, pasture, rangeland, vegetable and fruit crops, and non-cropland.

AGRICULTURAL

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

GUARANTEE: clopyralid: 360 g/L acid equivalent  
(present as the monoethanolamine salt)

REGISTRATION NO. 23545 PEST CONTROL PRODUCTS ACT

**CAUTION**  **POISON**

**DANGER - EYE IRRITANT**  
**HARMFUL IF ABSORBED THROUGH SKIN**  
**MAY CAUSE SKIN IRRITATION**

NET CONTENTS: 3.4 L

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

\*Trademark of Dow AgroSciences LLC

**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN****DANGER - EYE IRRITANT****HARMFUL IF ABSORBED THROUGH SKIN****MAY CAUSE SKIN IRRITATION**

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., refer to [www.croplife.ca/](http://www.croplife.ca/).

**COMBUSTIBLE**

Avoid contact with eyes, skin and clothing. Avoid breathing vapours or spray mist.

**AT ALL TIMES:** Wear clean, body-covering coveralls.

**DURING MIXING AND LOADING AND CLEANUP AND REPAIR:** Wear goggles or face shield and chemical resistant gloves. For application using hand-held equipment, wear chemical resistant gloves.

**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:** Induce vomiting if large amounts are ingested. Consult medical personnel or call a poison control centre, IMMEDIATELY.

**If in eyes:** Irrigate with flowing water IMMEDIATELY and continuously for 15 minutes. Consult medical personnel or call a poison control centre IMMEDIATELY.

**If on skin:** Wash off with soap and flowing water.

**TOXICOLOGICAL INFORMATION**

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

**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 360 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 any way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**(Booklet)**



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KEEP OUT OF REACH OF CHILDREN

GUARANTEE: clopyralid: 360 g/L acid equivalent  
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**CAUTION**  **POISON**

**DANGER - EYE IRRITANT**  
**HARMFUL IF ABSORBED THROUGH SKIN**  
**MAY CAUSE SKIN IRRITATION**

NET CONTENTS: 3.4 L, 4.45 L, 110 L, 115 L, 208 L, 454 L, Bulk

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**PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER - EYE IRRITANT**  
**HARMFUL IF ABSORBED THROUGH SKIN**  
**MAY CAUSE SKIN IRRITATION**

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., refer to [www.croplife.ca/](http://www.croplife.ca/).

**COMBUSTIBLE**

Avoid contact with eyes, skin and clothing. Avoid breathing vapours or spray mist.

**AT ALL TIMES:** Wear clean, body-covering coveralls.

**DURING MIXING AND LOADING AND CLEANUP AND REPAIR:** Wear goggles or face shield and chemical resistant gloves. For application using hand-held equipment, wear chemical resistant gloves.

**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:** Induce vomiting if large amounts are ingested. Consult medical personnel or call a poison control centre, IMMEDIATELY.

**If in eyes:** Irrigate with flowing water IMMEDIATELY and continuously for 15 minutes. Consult medical personnel or call a poison control centre IMMEDIATELY.

**If on skin:** Wash off with soap and flowing water.

**TOXICOLOGICAL INFORMATION**

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

**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 360 Herbicide. Store in heated storage; if product is frozen, bring to room temperature and agitate before use.

**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).

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**

Lontrel 360 Herbicide is a liquid concentrate intended for dilution with water and for use on canola, sugar beets, rutabagas, summerfallow, flax (including low linolenic acid varieties), wheat (spring), barley (spring), oats, strawberry, seedling and established grasses grown for forage and seed production, non-crop farmland, balsam fir Christmas trees and highbush blueberry. It is readily absorbed by both foliage and roots and translocates both upwards and downwards in plants. The product controls Canada thistle, wild buckwheat, scentless chamomile, common groundsel and volunteer alfalfa. It suppresses growth of perennial sow-thistle through control of top growth.

**USE PRECAUTIONS****VEGETATION AND CROP PRECAUTIONS****Sensitive Plants**

Do not apply Lontrel 360 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 it to drift onto them. Residues of Lontrel 360 Herbicide can remain in the soil following the year of use, thereby affecting growth of sensitive crops.

Special precautions should be taken during application to non cropland areas such as roadsides, pipelines and railways where sensitive desirable vegetation may be present. Do not apply to or allow drift to come into contact with sensitive desirable vegetation such as vetch or clover which may be found on embankments.

**Non-Target Sites**

Avoid contamination of non-target land, water or irrigation ditches. Do not use Lontrel 360 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 360 Herbicide can be seeded the following year to wheat, oats, barley, rye (not underseeded with legumes, clover or alfalfa), forage grasses, flax, canola, mustard or it can be summerfallowed.

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

**Tank Mixtures**

Do not mix or apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label.

**Grazing and Harvesting for Feed**

There are no restrictions on the grazing of crops or forages treated with Lontrel 360 Herbicide. If necessary, treated areas may be grazed immediately following application.

**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, barley, 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 360 Herbicide residues within the last 12 months.

**SPRAY EQUIPMENT AND CONTAINER PRECAUTIONS****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/hr or less.

**Equipment Clean-Up**

Equipment used to apply Lontrel 360 Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Lontrel 360 Herbicide dealer for a detailed equipment cleaning procedure.

**APPLICATION DIRECTIONS****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 360 Herbicide. Mix thoroughly in the tank. Second, add the recommended tank-mix herbicide. Finally with continued agitation, add the rest of the water.

**Spray Application Volume**

Apply Lontrel 360 Herbicide at 0.28 to 0.83 L/ha plus any other herbicide approved as a tank-mix at the recommended rate in sufficient water to ensure thorough coverage (100 to 200 L/ha of spray solution) by ground equipment only at pressures of 200 to 275 kPa. Treat when weeds are young and actively growing, when the Canada thistle is in the rosette to pre-bud stage and before the purple bud stage and volunteer alfalfa is 5-50 cm in height.

For spot spraying of weed patches, mix the required volume of Lontrel 360 Herbicide in 200 L of water and apply to 1000 m<sup>2</sup> of weeds. Refer to the following table for the correct amount of Lontrel 360 Herbicide to use:

<b>Recommended Rate of Lontrel 360 Herbicide Required Per Hectare</b>	<b>Volume of Lontrel 360 Herbicide Required To Treat 1000 m<sup>2</sup></b>
0.28 L	28 mL
0.42 L	42 mL
0.56 L	56 mL
0.83 L	83 mL

## Approximate Conversions:

200 to 275 kPa = 30 to 40 PSI

100 to 200 L/ha = 10 to 20 gallons/acre

1 sq. metre = 1.2 sq. yards

1 L/ha = 14 fl. oz./acre

**DIRECTIONS FOR USE****CROPLAND AND NON-CROP FARMLAND AREAS**

<b>Weeds Controlled</b>	<b>Rate<sup>♦</sup></b>
Canada thistle (top growth) vetch (Vicia spp.) alsike clover	0.42 L/ha
Canada thistle scentless chamomile wild buckwheat perennial sow-thistle (top growth) common groundsel volunteer alfalfa common ragweed sheep sorrel (suppression) ox-eye daisy (suppression)	0.56 L/ha
Canada thistle (season-long control of top growth with a reduction in population in the following year)	0.83 L/ha

♦ Refer to individual crop sections below for appropriate use rate.

**Weed Stages at Application**

Applications of Lontrel 360 Herbicide should be made when Canada thistle, perennial sow-thistle and scentless chamomile are 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 360 Herbicide made after the Canada thistle flower has reached the purple bud stage will not provide satisfactory control.

**Control of Canada Thistle**

For in crop control of top growth of Canada thistle apply Lontrel 360 Herbicide at the rate of 0.42 L/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 360 Herbicide at the rate of 0.56 L/ha. This rate will generally provide season long control of Canada thistle. Not all rhizomes will be killed and some regrowth may occur by the end of the growing season.

For season long control of top growth, with a reduction of Canada thistle population in the following year, apply Lontrel 360 Herbicide at the rate of 0.83 L/ha. This rate will provide season long control of Canada thistle and suppression into the following season, resulting in a reduction of the total number of Canada thistle shoots in the treated area.



**CANOLA (Western Canada Only)**

For use on Polish and Argentine varieties, including canola. Lontrel 360 Herbicide should be diluted with water and applied at the 2 to 6 leaf stage of the crop to effectively control Canada thistle, scentless chamomile, common groundsel, wild buckwheat, the top growth of perennial sow-thistle and volunteer alfalfa. For specific directions for control of Canada thistle only refer to the section: Control of Canada Thistle.

**Tank-mix Combinations in Canola****Tank mixing with Poast<sup>1</sup>, Poast Ultra, Hoe-Grass 284<sup>2</sup> or Venture L<sup>3</sup> Herbicides and Fusion<sup>6</sup> Herbicide Tank-mix**

For control of annual grass weeds as well as Canada thistle control, Lontrel 360 Herbicide can be tank mixed with Poast, Poast Ultra, Hoe-Grass 284, Venture L Herbicide or Fusion Herbicide Tank-mix. Refer to the product labels of these herbicides for a list of grass weeds controlled, rates of application and use precautions.

**Tank mixing with Fusion Herbicide**

Lontrel 360 Herbicide can be tank mixed with Fusion herbicide for control of wild buckwheat, scentless chamomile, season-long control of Canada thistle, and top-growth control of perennial sow thistle in canola. Refer to the product label of Fusion herbicide for rate of application and use precautions.

**Rates:** Use Lontrel 360 Herbicide (560 mL/Ha).

**Tank mixing with Select<sup>7</sup> Herbicide**

Lontrel 360 Herbicide can be tank mixed with Select herbicide for control of Canada thistle, wild buckwheat, wild oats, green foxtail, volunteer barley, volunteer wheat, and volunteer oats in canola. Refer to the product label of Select herbicide for rate of application and use precautions.

**Rates:** 0.42 L/Ha to 0.83 L/Ha of Lontrel 360 Herbicide can be tank mixed with Select herbicide.

**Tank mixing with Odyssey<sup>8</sup> Herbicide** for use on imazethapyr tolerant canola only (e.g. canola varieties with the Smart trait). Lontrel 360 Herbicide can be tank mixed with Odyssey herbicide for control of Canada thistle. Apply to imazethapyr tolerant canola when in the 2 to 6 leaf stage and when Canada thistle is activity growing. Lontrel 360 Herbicide applied at a rate of 0.42 L/Ha will provide top growth control of Canada thistle for 6-8 weeks, while the 0.56L/Ha rate will provide season long control. Refer to the product label of Odyssey herbicide for application and use precautions.

**Tank-mix Combinations in Herbicide Tolerant Canola****Glyphosate Tolerant Canola**

For hard-to-control weeds (see list below) in glyphosate tolerant canola apply a tank mixture of 0.28 L/ha of Lontrel 360 Herbicide with 1.25 L/ha of Vantage\* Herbicide Solution, Vantage Plus Herbicide Solution or Roundup<sup>9</sup> herbicide (Original or Transorb), in 100L of water per hectare. Apply when canola is in the 2 - 6 leaf stage. Refer to labels of tank-mix partners for lists of other weeds controlled, timing of application, water volumes and use precautions. **Apply this tank-mixture in glyphosate tolerant canola only.**

**Weeds Controlled**

Canada thistle (season-long top growth)  
dandelions <15cm diameter (season-long top growth)  
dandelions >15cm diameter (suppression)  
perennial sowthistle (season-long top growth)  
wild buckwheat

**Note 1:** When tank mixing water soluble formulations such as Lontrel 360 Herbicide with emulsifiable concentrates such as Poast, Hoe-Grass 284, Fusion, and Select herbicides, first add the Lontrel 360 Herbicide to the spray tank. Once it is half filled with water, add the emulsifiable concentrate as the remaining water is put into the spray tank.

**Note 2:** If the sprayer has been previously used to apply herbicides which contain 2,4-D or MCPA herbicides, it is imperative that the spray equipment be thoroughly cleaned before Lontrel 360 Herbicide is mixed in the spray tank. Trace contamination of the spray solution with these herbicides will result in damage to the canola.

#### **Tank-mix Instructions:**

Use 100 L/ha of water. Use a 50 mesh (or coarser) filter screen. Fill the spray tank three-quarters full with water. Add the required amount of ODYSSEY herbicide soluble bag(s) directly into the sprayer through the tank opening. Agitate for at least ten minutes to dissolve the herbicide. After the herbicide is dissolved, use a separate calibrated measuring device to add the required amount of Lontrel 360 Herbicide while agitating the spray solution. After the Lontrel 360 Herbicide is dissolved, continue agitation and add the required amount of Merge adjuvant or non-ionic surfactant plus fertilizer. 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 Odyssey herbicide, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying Odyssey herbicide, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

#### **FLAX, including low linolenic acid varieties (Western Canada Only)**

For use in flax, Lontrel 360 Herbicide should be applied when the flax is 5 to 10 cm high and the weeds are actively growing. Use Lontrel 360 Herbicide at 0.56 to 0.83 L/ha to control Canada thistle, common groundsel, scentless chamomile, wild buckwheat, perennial sow-thistle (top growth) and volunteer alfalfa.

The 0.83 L/ha rate will extend control of Canada thistle into the following year.

#### **Tank-mix Combinations in Flax**

##### **Tank mixing with MCPA Herbicide**

For wide spectrum broadleaved weed control, Lontrel 360 Herbicide at 0.42 L/ha may be tank mixed with MCPA amine or ester herbicides at the rate of 420 to 560 g active ingredient/ha. The tank-mix will control the following weeds:

Canada thistle (top growth control)	tartary buckwheat
shepherd's-purse	scentless chamomile
common groundsel	wild buckwheat
common ragweed	wild mustard
cocklebur	volunteer canola
dandelion	redroot pigweed*
stinkweed	perennial sow-thistle (top growth)
lamb's-quarters	volunteer alfalfa

\*check with MCPA herbicide label for rates and control rating.

**NOTE:** Rates of MCPA ester herbicide of 420 g active ingredient/ha or higher, or MCPA amine herbicide of 490 g active ingredient/ha or higher may cause some delay in maturity with resulting yield reduction.

Where contact herbicides such as bromoxynil herbicide are used (which damage the leaves of the Canada thistle) Lontrel 360 Herbicide should be applied 7 to 14 days prior or after an interval of 14 days. This allows the Canada thistle to recover and resume growth.

#### **Tank mixing with Poast Herbicide**

For control of annual grasses in flax only, Lontrel 360 Herbicide can be tank mixed with Poast herbicide. Refer to the Poast herbicide label for use instructions and for the list of annual grass weeds controlled, rates of application and use precautions.

#### **Mixing Instructions**

Add the correct amount of Lontrel 360 Herbicide to spray tank half filled with water and agitate. Add the correct amount of Poast herbicide and continue to agitate. Add the correct amount of Merge adjuvant along with the remaining amount of water necessary to fill the spray tank. Continue agitation.

#### **Tank mixing with MCPA and Poast Herbicides**

For control of broadleaved, annual grasses, and certain perennial broadleaved weeds, Lontrel 360 Herbicide can be tank mixed with MCPA and Poast herbicides at the same time. Refer to these product labels for use instructions and for the list of weeds controlled, rates of application and use precautions.

#### **Mixing Instructions**

Add the correct amount of Lontrel 360 Herbicide, then MCPA herbicide to half filled sprayer and agitate for 2 to 3 minutes. Next, add Poast herbicide, and follow with the addition of Merge adjuvant with the remaining water to the required spray volume. Continuously agitate at all times.

#### **Tank mixing with Select Herbicide**

Lontrel 360 Herbicide can be tank mixed with Select herbicide + Amigo adjuvant for control of Canada thistle, wild oats, green foxtail, volunteer barley, volunteer wheat, volunteer oats, and wild buckwheat in flax. See Select herbicide label for other weeds controlled. Refer to the product label of Select herbicide for rate of application and use precautions.

#### **OATS (Western Canada Only), WHEAT (SPRING) AND BARLEY (SPRING)**

Lontrel 360 Herbicide may be used on wheat (spring), barley (spring) and oats to control Canada thistle, common groundsel, perennial sow-thistle (top growth control), wild buckwheat, scentless chamomile and volunteer alfalfa. Lontrel 360 Herbicide should be applied when the wheat, barley or oats are between the 3 leaf to flag leaf emergence stages of growth and weeds are actively growing. Since Lontrel 360 Herbicide damages legumes such as clover and alfalfa, these should not be undersown into the cereals. See Grazing and Harvesting for Feed Section of label for grazing/harvesting intervals for immature crops.

#### **Tank-Mix Combinations**

##### **Tank mixing with 2,4-D or MCPA herbicides**

Lontrel 360 Herbicide may be tank mixed with 2,4-D amine or ester herbicide (excluding oats) or MCPA amine or ester herbicides for control of additional broadleaved weeds and to provide season long control of Canada thistle top growth. Read and follow the label of each tank-mix product used for precautionary

statements, directions for use, weeds controlled and any other restrictions. When tank mixing, adhere to the most restrictive label limitations and precautions. No label rates should be exceeded. This product must not be tank mixed with any product containing a label prohibition against such mixing.

### Rate of Use

Lontrel 360 Herbicide may be used alone in cereals for Canada thistle control or in combination with 2,4-D (excluding oats) or MCPA amine or ester herbicides for broad spectrum weed control.

Use 0.42 L/ha of Lontrel 360 Herbicide for the control of top growth of Canada thistle. This rate will suppress top growth of Canada thistle for 6 to 8 weeks. Some regrowth may occur by the end of the season but will not interfere with the harvesting of the crop.

Use 0.56 L/ha of Lontrel 360 Herbicide for season long control of Canada thistle.

Use 0.28 to 0.42 L/ha of Lontrel 360 Herbicide only in combination with 2,4-D or MCPA amine or ester herbicides at recommended label rates for season long control of Canada thistle. In combination with 2,4-D or MCPA herbicides the 0.28 L/ha rate will provide control of Canada thistle for 6 to 8 weeks and the 0.42 L/ha rate will provide season long control of Canada thistle.

**NOTE:** Do not use products containing 2,4-D herbicide on oats due to the probability of crop injury.

### Tank-Mix Combinations with Lontrel 360 Herbicide for Use in Spring Wheat (excluding durum) and Barley (Western Canada Only)

#### Tank mixing with 2,4-D Ester or MCPA Ester plus Refine Extra<sup>4</sup> Herbicides

A tank mixture of Lontrel 360 Herbicide plus 2,4-D Ester or MCPA Ester plus Refine Extra herbicides will control perennial sow thistle, wild buckwheat, volunteer canola, wild mustard, lady's thumb and stinkweed, while providing seasonal control of Canada thistle and suppression of cleavers. Refer to the MCPA Ester

or 2,4-D Ester herbicide labels for additional broadleaved weeds controlled at the rates recommended below. Read and follow the label of each tank-mix product used for precautionary statements, directions for use and any other label restrictions. **Do not use this tank mixture on oats.**

#### Rates of Use

Lontrel 360 Herbicide	0.21 L/ha
plus	
MCPA Ester herbicide (500 g/L)	0.84 L/ha
or	
2,4-D Ester herbicide (600 g/L)	0.7 L/ha
plus	
Refine Extra herbicide (75%)	20 g/ha

Add a recommended surfactant such as Agral 90<sup>5</sup> at a rate of 0.2% of the final spray volume (i.e., 2.0 L per 1000 L of spray solution).

**Mixing Order**

When mixing this combination, mix Refine Extra herbicide first in fresh water, then add the required amount of Lontrel 360 Herbicide followed by MCPA or 2,4-D herbicides. Add the surfactant last.

**Tank mixing with Triumph Plus<sup>2</sup> Herbicide**

Lontrel 360 Herbicide can be tank mixed with Triumph Plus herbicide for season long control of Canada thistle in spring wheat (except durum) only. Apply to Canada thistle up to 15 cm in height at a rate of 0.21 liters of Lontrel 360 Herbicide per hectare. Read and follow the label of Triumph Plus herbicide for rate information, precautionary statements, directions for use and any other label restrictions.

**Rates:** Use Lontrel 360 Herbicide (0.21 L/ha).

**SUMMERFALLOW AND NON-CROP FARMLAND**

Lontrel 360 Herbicide may be used on summerfallow (one application per year) and non-crop farmland (around farm buildings, storage areas, fence rows, etc.) at 0.83 L/ha for the control of Canada thistle, scentless chamomile, common groundsel, wild buckwheat, the top growth of perennial sow-thistle and volunteer alfalfa. The Canada thistle plants should be between the rosette and the early bud stage and actively growing at the time of spraying.

**SEEDLING AND ESTABLISHED GRASSES FOR SEED PRODUCTION AND FORAGE (WESTERN CANADA ONLY)**

Including Kentucky bluegrass, smooth brome grass, reed canary grass, creeping red fescue, meadow fescue, tall fescue, meadow foxtail, orchard grass, altai wild ryegrass, Russian wild ryegrass, timothy, crested wheatgrass, intermediate wheatgrass, slender wheatgrass and streambank wheatgrass for forage and seed production and tall wheatgrass for forage only: For control of the weeds listed on the label plus alsike clover, apply Lontrel 360 Herbicide at the rate of 0.42 to 0.83 L/ha in 110 to 220 L/ha of water. Make one application per season by ground sprayer. For seedling grasses, apply at the 2 to 4 leaf stage. For established grasses, apply at the shot-blade stage, or in the fall after harvest or in early spring. See Grazing and Harvesting for Feed Section.

**BALSAM FIR CHRISTMAS TREE PLANTATIONS**

For the control of vetch (*Vicia* spp.) apply Lontrel 360 Herbicide at 0.42 L/ha in 150 to 200 L/ha of water as a directed foliar application using a hydraulic sprayer. Best control is obtained when vetch stems are 10 to 15 cm long and prior to the vetch climbing into a tree crown. Avoid contact with the upper two thirds of the tree crown. Do not use on seedbeds, transplants or any over-the-top applications.

**SUGAR BEETS**

For Canada thistle control apply Lontrel 360 Herbicide at 0.56 to 0.83 L/ha with ground equipment as a foliar spray either broadcast or in a band over the row. When applied in the band, the amount of Lontrel 360 Herbicide should be reduced proportional to the band width. Lontrel 360 Herbicide should be applied when sugarbeets are in the cotyledon to 8 leaf stage. For the most effective control of Canada thistle, apply Lontrel 360 Herbicide as a broadcast treatment to the entire infested area. Do not apply within 90 days of harvest.

**RUTABAGA**

For control of common ragweed, apply Lontrel 360 Herbicide with a boom sprayer at the rate of 0.56 L/ha in approximately 200 to 300 L/ha of water. Apply as a postemergent spray when ragweed plants are 5 to 10 cm tall. Application to larger ragweed plants will result in reduced weed control. Make only one application per season. Preharvest interval is 83 days.

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#### **DIRECTIONS FOR USE**

**HIGHBUSH BLUEBERRY:** Make one application per year, post emergent for the control of vetch and red and white clover. Apply as a broadcast treatment. Apply at a rate of 0.42 L/ha for vetch and 0.83 L/ha for red and white clover. The Pre-harvest interval is 45 days.

**CANOLA - ONTARIO ONLY:** To be used on Canola in Ontario on the following NATIONALLY REGISTERED spring canola cultivars: Cyclone, Ebony, Jewel, 46A65 and Hyola 401.

<b>Weeds Controlled</b>	<b>Rate</b>	<b>4.45 L Bottle will Treat</b>	<b>For Optimum Results</b>
Canada thistle	0.42 L/ha	10.6 ha	1. Treat when weeds are actively growing.
scentless chamomile	to	to	
wild buckwheat	0.56 L/ha	7.9 ha	2. Use 100 to 200 L/ha spray solution for uniform coverage.
perennial sow-thistle (top growth) common groundsel			

Make one application per season; post emergent. Apply at the 2-6 leaf stage of canola, when weeds are actively growing. Apply to Canada thistle at the rosette to pre-bud stage.

**BEARING AND NON-BEARING APPLES:** To be used on bearing and non-bearing apples for control of perennial vetch species. Apply at a rate of 0.56 L/ha on vetch at the early flowering stage as a spot treatment. Apply as a ground application only. Avoid contact of the spray with the tree limbs. For best results apply in early spring. Allow at least 30 days between weed treatment application and harvest.

**CABBAGE, CAULIFLOWER, BROCCOLI AND KOHLRABI (ALL TRANSPLANTED), NAPPA CABBAGE (TRANSPLANTED AND SEEDED), CHINESE RADISH, MUSTARD CABBAGE AND CHINESE BROCCOLI (ALL SEEDED).** Make one application per year to control ragweed, vetch, common groundsel, Canada thistle and for suppression of sheep sorrel. Apply post planting as a ground application only.

**Application rate:** Apply at a rate of 0.56 L/ha in 300 L water/ha. The pre-harvest interval (PHI) is 30 days.

**CRANBERRY:** Make one-two applications per year, for the control of vetch. Apply with wiper-type application equipment.

Wipe treatments may be applied as a spot application. The treatment may be applied using equipment such as a hockey stick applicator. **The treatment solution should be wiped onto weed foliage which extends above the cranberry canopy.** Wiper applications may be made in the fall at least 2 weeks after harvest and after the vines have attained their winter dormancy colour, and in the spring prior to

bud-break. Wiper application treatments may also be applied following cranberry bud-break (first emergence (1 to 2 mm) of terminal meristem) to control late emerging weeds or weeds which escaped earlier control measures. **Contact of the treatment solution with cranberry foliage after budbreak should be avoided since it will result in plant injury.**

**Application rate:** Apply a 2% solution of Lontrel 360 Herbicide in water (20 mL product/L water). The preharvest interval is 60 days.

**WEED CONTROL IN SHELTERBELTS:** For control of Canada thistle in shelterbelts of villosa lilac, acute willow, Colorado spruce, white spruce, buffaloberry and chokecherry. Make one application per year. Apply to Canada thistle at the rosette to pre-bud stage, post emergent, ground application only.

Application rate: Apply at a rate of 0.83 L/ha.

#### **STRAWBERRY (Renovation)**

For control of tufted vetch and Canada thistle and suppression of sheep sorrel and ox-eye daisy, apply Lontrel 360 Herbicide at the rate of 0.56 to 0.83 L/ha. Apply as a broadcast application with a boom sprayer calibrated to deliver a total volume of 150 to 200 L/ha. For Canada thistle control, refer to the Control of Canada Thistle section for rate selection. For control of tufted vetch apply at the 0.56 L/ha rate. For sheep sorrel and ox-eye daisy, apply at the 0.83 L/ha rate. Apply as the single treatment immediately after harvest but before mowing. Wait at least 7 to 10 days after Lontrel 360 Herbicide application before mowing. Do not apply Lontrel 360 Herbicide after mid-August because of its possible effects on runner development and flower bud formation. Later applications of Lontrel 360 Herbicide may cause crop damage resulting in reduced yields in the season following treatment.

Apply Lontrel 360 Herbicide only as a summer renovation treatment.

Do not apply Lontrel 360 Herbicide more than once per year.

Early strawberry varieties such as Annapolis or Veestar may be more susceptible to injury. Certain environmental stresses such as drought, flooding or severe overwintering conditions may increase the risk of injury from Lontrel 360 Herbicide.

#### **CONTROL OF TUFTED VETCH IN LOWBUSH BLUEBERRY IN EASTERN CANADA ONLY**

Apply Lontrel 360 Herbicide to control tufted vetch in lowbush blueberry. **FOR SPOT APPLICATION ONLY.** When using a hand gun or backpack sprayer to treat small infestations, apply Lontrel 360 herbicide at a rate of 42 ml per 1000 square metre area in 200 L of water. When applying with a boom sprayer to treat larger infestations, apply 420 ml of Lontrel 360 Herbicide per hectare in 150-200 L water. Make one application per year, in the non-bearing year (prune year). Apply in June OR when tufted vetch is in early bloom. Applications of Lontrel 360 Herbicide may cause crop damage resulting in reduced yields in the season following application. The Pre-harvest interval is 10 months.

#### **CONTROL OF CANADA THISTLE AND OTHER LABELLED WEEDS IN POPLAR SPECIES AND THEIR HYBRIDS**

Apply Lontrel 360 Herbicide at a rate of 0.83 L/ha to control Canada thistle and other labelled weeds in new and established short rotation intensive culture crops of poplar (*Populus*) species and their hybrids. Make one application per year. Apply to Canada thistle in the rosette to pre-bud stage. Apply by ground application only using an overall spray or as a directed spray to the base of the tree. Some leaf cupping and stem twisting may occur, but will not adversely affect growth.

**WARNING:** Poplar clones/hybrids vary in their tolerance to Lontrel 360 Herbicide. Injury observed includes leaf injury, leaf cupping, stem twisting, height reduction and diameter reduction. As not all clones/hybrids have been tested for tolerance to Lontrel 360 Herbicide, use of this product should be limited to a small area of each clone/hybrid to confirm tolerance prior to adoption as a general field practice.

REFER TO THE MAIN LONTREL 360 HERBICIDE LABEL FOR ADDITIONAL DETAILS AND INSTRUCTIONS, INCLUDING ROTATIONAL CROPPING RESTRICTIONS, BEFORE USING THIS PRODUCT

## **NON-CROP AREAS**

### **FOR USE IN BRITISH COLUMBIA INTERIOR, PRAIRIE (including the Peace River Region of B.C.), CENTRAL AND ATLANTIC REGIONS OF CANADA ONLY.**

Lontrel 360 Herbicide may be used on the following non-crop areas: rights-of-way (hydro, railroad, communication lines, pipelines) and associated stations, industrial manufacturing sites, storage sites, vacant lots and roadsides, military bases and low maintenance rough turf areas (grass areas where the dominant species are those listed in the Rangeland and Grass Pasture Section of this label, and where little or no maintenance is applied). This product is not registered for use on fine turf lawns or turf grass receiving high maintenance. Apply between 0.42 to 0.83 L/ha depending on weeds present and level of Canada thistle control required. Refer to the Weeds Controlled table for appropriate application rate.

### **TANK-MIX COMBINATIONS**

Lontrel 360 Herbicide may be tank mixed with 2,4-D Amine or Ester or MCPA Amine or Ester for control of additional broadleaf weeds on roadsides and vacant lots. Lontrel 360 Herbicide may also be tank mixed with 2,4-D Amine for additional broadleaf use control on rights-of-way (hydro, railroad, communication lines, pipelines) and associated stations, industrial manufacturing sites and storage sites. Read and follow the label of each tank-mix product used for precautionary statements, directions for use, weeds controlled and any other restrictions. When tank mixing adhere to the most restrictive label limitations and precautions.

Lontrel 360 Herbicide at 0.42 to 0.83 L/ha may be tank mixed with 2,4-D or MCPA Herbicides at the rate of 420 to 560 g active ingredient/ha. The tank-mix will control many weeds, including: Canada thistle, cocklebur, common ragweed, dandelion, lamb's-quarters, scentless chamomile, perennial sow-thistle, shepherd's-purse, stinkweed, tartary buckwheat, wild buckwheat and wild mustard. Apply up to the 15 cm height of annual broadleaf weeds.

### **RANGELAND AND GRASS PASTURE**

Including Kentucky bluegrass, smooth brome grass, reed canary grass, creeping red fescue, meadow fescue, tall fescue, meadow foxtail, orchard grass, altai wild ryegrass, Russian wild ryegrass, timothy, crested wheatgrass, intermediate wheatgrass, slender wheatgrass, streambank wheatgrass and tall wheatgrass.

For control of the weeds on the label plus alsike clover, apply Lontrel 360 Herbicide at the rate of 0.42 to 0.83 L/ha in 110 to 120 L/ha of water. Make one application per season by ground sprayer. For seedling grasses, apply at the 2 to 4 leaf stage. For established grasses, apply at the shot-blade stage or in the fall after harvest or early spring. Do not apply tank mixtures containing 2,4-D or MCPA.



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#### **DIRECTIONS FOR USE**

**FOR USE IN BRITISH COLUMBIA INTERIOR, PRAIRIE (including the Peace River Region of B.C.), CENTRAL AND ATLANTIC REGIONS OF CANADA ONLY.**

**CONTROL OF SPOTTED AND DIFFUSE KNAPWEED IN NON-CROPS AREAS (rights-of-way [hydro, railroad, communication lines, pipelines] and associated stations, industrial manufacturing sites, storage sites, roadsides, airports, military bases and low maintenance rough turf areas) AND IN RANGELAND, PASTURE AND BALSAM FIR CHRISTMAS TREE STANDS OR PLANTATIONS.**

#### **Weeds Controlled**

Spotted and Diffuse Knapweed

#### **Application Rate**

.70 L/ha

Make one application per year for the control of spotted and diffuse knapweed. Apply in the spring prior to the bud stage of the weeds. Apply in 100 - 200 L water/ha. Apply to both seedling or established plants.

REFER TO THE MAIN LONTREL 360 HERBICIDE LABEL FOR ADDITIONAL DETAILS AND INSTRUCTIONS, INCLUDING ROTATIONAL CROPPING RESTRICTIONS, BEFORE USING THIS PRODUCT

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Lontrel 360 Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Lontrel 360 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 360 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.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 any way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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