



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number

293226

Application for Pesticide - Section I

1. Company/Product Number: Dow AgroSciences/62719-305
2. EPA Product Manager: Joanne I. Miller
3. Proposed Classification: None/Restricted
4. Company/Product (Name): Dow AgroSciences/Lontrel* Turf and Ornamental
5. Name and Address of Applicant: Dow AgroSciences LLC, 9330 Zionsville Road, Indianapolis, IN 46268
6. Expedited Review: In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in Composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other- Explain below. NOTIFICATION MAR 18 2004

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Change by Notification:

- 1. Added instructions for Tip 'n Measure container to the base label

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other. 3. Location of Net Contents Information: Label, Container. 4. Size(s) Retail Container. 5. Location of Label Directions: On Label, On Labeling accompanying product. 6. Manner in Which Label is Affixed to Product: Lithograph, Paper glued, Stenciled, Other.

Section - IV

1. Contact Point /Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

Name: Kimberly S. Gilbert, Title: Regulatory Manager, Telephone No.: 317/337-4685

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowing false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature: Kimberly S. Gilbert, 3. Title: Regulatory Manager, 4. Typed Name: Kimberly S. Gilbert, 5. Date: 24 February 2004

* Trademark of Dow AgroSciences LLC

308/2E
February 24, 2004



Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

LONTREL* TURF AND ORNAMENTAL (AI: CLOPYRALID)
EPA REGISTRATION NUMBER: 62719-305
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10

Enclosed please find labeling for this notification action for Lontrel Turf and Ornamental herbicide, EPA Reg. No. 62719-305 based on EPA accepted copy dated October 7, 2003.

Proposed Changes by Notification:

1. Added instructions for Tip 'n Measure container to the base label

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Contents of Submission

- Transmittal document (this letter)
- Application for Pesticide, EPA Form 8570-1 (OPP No. 293226)
- Label titled Lontrel* Turf and Ornamental (A2A / Lontrel Turf and Ornamental / Notif / 02-23-04) (16 Pages plus Registration Notes) (5 Copies)

Please contact Cindy Loy, Label/Registration Specialist if you need additional information (317/337-4655 / caloy@dow.com), or Paula McKinnies Registration Assistant for this product (317/337-4679 / pmckinnies@dow.com).

Sincerely,

A handwritten signature in black ink that reads "Kimberly S. Gilbert".

Kimberly S. Gilbert
Regulatory Manager
Regulatory Success – Americas
PH: 317/337-4685
FX: 317/337-4649
ksgilbert@dow.com

Enclosures
/pkm

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(Base Label)

(Logo) Dow AgroSciences

Lontrel* Turf and Ornamental

For selective postemergence control of broadleaf weeds in non-residential turf, including turf grown for seed or sod farms, and certain ornamental plantings, such as conifers, non-leguminous woody species, and ornamental grasses, in landscapes and nurseries.

Active Ingredient:

clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt..... 40.9%

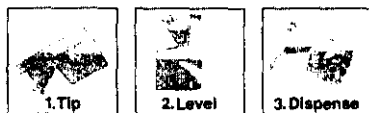
Inert Ingredients 59.1%

Total 100.0%

Acid Equivalent: clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid - 31% - 3 lb/gal

[Editor's Note: The following Container Use Directions should be included on the label if product is packaged in a 1 pint Tip 'n Measure bottle.]

Container Use Directions



1. Remove the measuring chamber cap and induction seal. Replace cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: Remove fill chamber cap and dispense according to markings on side of bottle.

Keep Out of Reach of Children

CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin

Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants

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- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are not acceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

*Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC • Indianapolis, IN 46268 USA

Herbicide

Net Contents XXX

(Label Booklet Cover)

(Logo) Dow AgroSciences

Lontrel* Turf and Ornamental

For selective postemergence control of broadleaf weeds in non-residential turf, including turf grown for seed or sod farms, and certain ornamental plantings, such as conifers, non-leguminous woody species, and ornamental grasses, in landscapes and nurseries.

Active Ingredient:

 cloprialid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt..... 40.9%

Inert Ingredients 59.1%

Total 100.0%

Acid Equivalent: cloprialid: 3,6-dichloro-2-pyridinecarboxylic acid - 31% – 3 lb/gal

Keep Out of Reach of Children

CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for additional precautionary information and Directions for

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are not acceptable, return at once unopened.**

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EPA Reg. No. 62719-305

EPA Est. _____

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Dow AgroSciences LLC • Indianapolis, IN 46268 USA

Herbicide

Net Contents XXX

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(page 1 through end)

Precautionary Statements

Hazards to Humans and Domestic Animals**CAUTION****Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin****Avoid contact with eyes, skin, or clothing.****Personal Protective Equipment (PPE)****Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Physical or Chemical Hazards**Combustible. Do not use or store near heat or open flame.**

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Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Non-Agricultural Use Requirements

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms or nurseries.

When Lontrel Turf and Ornamental is applied to lawns, landscape areas, or golf courses, keep unprotected persons out of treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store above 28°F or warm to 40°F and agitate before use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Metal Container Disposal: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or, puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Container Disposal: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Lontrel® Turf and Ornamental herbicide is recommended for selective, postemergence control of broadleaf weeds in non-residential turf, including turf grown for seed or sod farms, and certain woody ornamental plantings, such as conifers, non-leguminous woody species, and ornamental grasses in landscapes and nurseries.

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Precautions and Restrictions

- In **California, Florida and New York** the maximum use rate is 2/3 pint per acre per growing season.
- Sale and use of this product in Suffolk and Nassau counties in the state of New York is prohibited.
- In **California, Oregon and Washington**, turfgrass and lawn uses are restricted to golf courses only.
- Do not use on residential turf. Turfgrass and lawn uses are restricted to non-residential sites.
- Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.
- Do not collect runoff water from treated areas for use as irrigation water.
- Do not apply by aircraft.
- Do not use in greenhouses.
- Do not make broadcast applications to ornamental plantings in commercial and residential landscape settings; however, spot and directed applications are permissible.
- To avoid plant injury, do not apply to exposed roots of shallow rooted trees and shrubs such as legumes (pod bearing plants such as acacia, locust, mimosa, redbud, or mesquite) or littleleaf linden (*Tilia cordata* and other *Tilia* species).
- Do not allow sprays of this product to contact exposed suckers and/or roots of susceptible trees or shrubs or injury may occur.
- Do not reseed turf for 3 weeks after application.
- Lontrel Turf and Ornamental is not recommended for use on golf course putting greens or tees.
- Do not apply this product in tank mix to woody ornamental plants.
 - Do not send grass clippings to a compost facility.
- Do not collect grass clippings for mulch or compost.
- Applicator must give notice to landowners/property managers to not use grass clippings for composting.
- **Chemigation:** Do not apply this product through any type of irrigation system.

Crop Rotation Restrictions

Residues of this product in treated plant tissues that have not completely decayed may affect succeeding susceptible crops. Do not rotate to susceptible broadleaf plantings for 10.5 months after application of this product or 18 months if soil contains less than 2% organic matter. A field bioassay is recommended prior to planting certain plant species that may be highly sensitive to clopyralid, such as members of the legume family. These recommendations are based on average annual precipitation, regardless of irrigation practices. Use of this product in accordance with these rotational recommendations, if followed, is not expected to result in crop injury. However, because this product is dissipated in the soil by microbial activity and the rate of microbial activity is dependent on soil moisture, temperature, and organic matter, accurate prediction of potential rotational crop injury is impossible. In areas of low organic matter (<2.0%) and less than 15 inches average annual precipitation, potential for crop injury may be reduced by removal of plant residues, supplemental fall irrigation and deep tillage prior to planting a sensitive crop.

Field Bioassay Instructions: Using typical tillage practices, and established practices for a particular crop, make limited plantings of the potentially sensitive plant variety across the area previously treated with this product. Plants should also be located so that different field conditions are encountered, including differences in soil texture, pH, and drainage. If the intended crop does not show visible symptoms of injury within 90 to 120 days, the sensitive crop in question can be established in the treated area in the growing season following the bioassay. If visible injury occurs, the intended sensitive crop should not be planted and the bioassay repeated the following growing season.

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Treatment of Plant Species not Listed on the Label (Nursery and Turfgrass Use Only): Users who wish to use Lontrel Turf and Ornamental on ornamental plant and turfgrass species not recommended on this label may determine the suitability for use by treating a small area of turf or small number of ornamental plants at a recommended rate. Prior to treatment of larger areas, treated plants should be observed for any symptoms of herbicidal injury, such as foliar damage, reduced vigor or stand reduction, during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious. The user assumes responsibility for any plant damage or other liability resulting from use of Lontrel Turf and Ornamental on ornamental plant species not recommended in this label.

Avoiding Injury to Non-Target Plants

This product can affect susceptible broadleaf plants directly through foliage and indirectly by root uptake from treated soil. Therefore, do not apply this product directly to, or allow spray drift to come in contact with, flowers, grapes, tomatoes, potatoes, beans, lentils, peas, alfalfa, sunflowers, soybeans, safflower, or other susceptible broadleaf crops or ornamental plants or soil where these crops will be planted the same season.

Avoid Spray Drift

Avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible crops during active growth or dormant periods. Use coarse sprays to minimize drift. To aid in further reducing drift, a drift control or deposition agent suitable for agricultural use may be used with this product. If used, follow all use recommendations and precautions on the product label.

Spray drift can be lessened by keeping the spray boom as low as possible, by applying 20 gallons or more of spray per acre, by keeping the operating spray pressures at the manufacturer's minimum recommended pressures for the specified nozzle type used (low pressure nozzles are available from spray equipment manufacturers), and by spraying when the wind velocity is low (follow state regulations). Avoid application under completely calm conditions which may be conducive to air inversion. In hand-gun applications, select the minimum pressure required to obtain adequate plant coverage without forming a mist. **Do not** apply with a mist blower.

Sprayer Clean-Out

To avoid injury to desirable plants, equipment used to apply this product should be thoroughly cleaned before reusing to apply any other chemicals.

1. Rinse and flush application equipment thoroughly at least 3 times with water after use. Dispose of rinse water by applying to treatment area or to non-cropland area away from water supplies.
2. During the second rinse, add 1 qt of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15-20 minutes). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove nozzles and screens and clean separately.

Mixing Instructions

1. Add 3/4 of the required spray volume to the spray tank and start agitation.
2. Add the required amount of Lontrel Turf and Ornamental.
3. Add any surfactants, adjuvants or drift control agents according to manufacturer's label.
4. Agitate during final filling of the spray tank and maintain sufficient agitation during application to ensure uniformity of the spray mixture.

Note: Allow time for thorough mixing of each spray ingredient before adding the next. If allowed to stand after mixing, agitate spray mixture before use.

Tank Mixing (Turf Only)

Lontrel Turf and Ornamental may be applied in tank mix combination with labeled rates of other products

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provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- Do not exceed recommended application rates. If products containing the same active ingredient are tank mixed, do not exceed the maximum allowable active ingredient use rates.
- For products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been adequately cleaned. (See instructions for Sprayer Clean-Out.)
- Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of Lontrel Turf and Ornamental and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in the required order and their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. The mixture should remain stable or, if separation occurs, should readily mix if agitated. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Application Directions

Application Timing

Apply to actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at, or following application may reduce weed control and increase the risk of crop injury at all stages of growth. Only weeds that have emerged at the time of application will be affected. Wet foliage at the time of application may decrease control. Applications of Lontrel Turf and Ornamental are rainfast within 2 hours after application.

Use of Adjuvants

Addition of surfactants, crop oils, or other adjuvants is not usually necessary when using this product. Adding a surfactant to the spray mixture may increase effectiveness on weeds but may reduce selectivity to the crop, particularly under conditions of plant stress. If an adjuvant is added to the spray solution, follow all manufacturer use guidelines.

Spray Coverage

Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. For best results and to minimize spray drift, apply in a spray volume of 20 gallons or more per acre. As vegetative canopy and weed density increase, spray volume should be increased to obtain equivalent weed control. Use only nozzle types and spray equipment designed for herbicide application. To reduce spray drift, follow precautions under Avoiding Injury to Non-Target Plants.

Spot Treatments

To prevent misapplication, spot treatments should be applied with a calibrated boom or with hand sprayers using a fixed spray volume per 1000 sq ft as indicated below.

Hand-Held or Backpack Sprayer Application

Hand-held sprayers may be used for treatment of smaller areas if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based on an area of 1000 sq ft. Mix the amount of Lontrel Turf and Ornamental (fl oz or ml) corresponding to the desired broadcast rate in the spray volume needed to treat 1000 sq ft. To calculate the amount required for larger areas, multiply the table value (fl oz or ml) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (calc. $3500 \div 1,000 = 3.5$). An area of 1000 sq ft is approximately 10.5 x 10.5 yards (strides) in size.

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Amount of Lontrel Turf and Ornamental per 1000 sq ft to Equal Specified Broadcast Rate					
1/4 pt/acre	1/3 pt/acre	1/2 pt/acre	2/3 pt/acre	1 pt/acre	1 1/3 pt/acre
1/10 fl oz [†] (2.7 ml)	1/8 fl oz (3.6 ml)	1/5 fl oz (5.4 ml)	1/4 fl oz (7.3 ml)	3/8 fl oz (11 ml)	1/2 fl oz (15 ml)

[†]1 fl oz = 29.6 (30) ml

Weeds Controlled and Use Rate Recommendations

For best results, apply Lontrel Turf and Ornamental when weeds are small and actively growing. For control of weeds such as Canada thistle and knapweeds, apply after the majority of the basal leaves have emerged, but before bud stage. Later application may result in less consistent control.

Note: Use higher rates when hard to control species are prevalent or when applications are made in late summer or on mature weeds or during periods of drought stress.

In California, Florida and New York the maximum use rate is 2/3 pint/acre per growing season.

Weeds Controlled	Suggested Application Rate	
	(pt/acre)	(fl oz/1000 sq ft) [†]
black medic dock (curly, broadleaf) galinsoga goldenrod	mayweed, stinking nightshade (Eastern, black, cutleaf, hairy) pineappleweed	1/4 - 1/3 1/10 - 1/8 (2.7 - 3.6 ml)
burnweed, American burweed, lawn clover (red, hop, white, sweet)	dogfennel	1/3 - 1/2 1/8 - 1/5 (3.6 - 5.4 ml)
artichoke, Jerusalem aster, seaside burdock, common chamomile, false (mayweed) cocklebur, common coffeeweed cornflower daisy, oxeye hawksbeard, narrowleaf hawkweed, orange hawkweed, yellow inula sp. jimsonweed lettuce, prickly	locoweed, white locoweed, lambert marshelder salsify, meadow sicklepod sorrel, red sowthistle, annual speedwell starthistle, yellow sunflower teasel, common thistle, bull thistle, musk vetch, common	1/2 1/5 (5.4 ml)
carrot, wild cudweed dandelion, common groundsel, common horseweed knapweed, spotted knapweed, diffuse	knotweed, prostrate pimpernel, scarlet plantain, narrowleaf spurry, corn ragwort, tansy thistle, Canada ^{††}	2/3 1/4 (7.3 ml)
ragweed - (common, giant) smartweed buckwheat, wild		1 3/8 (11 ml)
Weeds Suppressed		1 1/3 1/2

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(Repeat Treatment May Be Necessary): buffalo bur buttercup, hairy buttonweed, Virginia dollarweed knapweed, Russian	kudzu	(15 ml)
	ladysthumb	
	mesquite	
	plantain, broadleaf	
	sowthistle, perennial	

[†] For treatment of small areas, see instructions for spot treatment and use of hand-held or backpack sprayers, above.

^{††} See specific use directions for control of Canada thistle under Ornamentals.

1 fl oz = 29.6 (30) ml = 2 tablespoons = 6 teaspoons

Uses

Turfgrasses (Including Turf Grown for Seed or Sod)

Apply Lontrel Turf and Ornamental in enough water to deliver 20 gallons or more of total spray mix per acre. Higher application volumes may be used when tank mixed with fertilizers. Spot applications may be applied at equivalent broadcast rates using hand-held application equipment (see instructions in Application Information section). See Weeds Controlled and Use Rate Recommendations in General Information section.

Lontrel Turf and Ornamental is recommended for use on the following turf species:

Established Cool Season Turfgrasses

<u>Common Name</u>	<u>Scientific Name</u>
bentgrass (including bentgrass fairways)	<i>Agrostis species</i>
bluegrass, Kentucky	<i>Poa pratensis</i>
fescue, chewing	<i>Festuca rubra var. commutata</i>
fescue, creeping red	<i>Festuca rubra</i>
fescue, sheeps	<i>Festuca ovina</i>
fescue, tall	<i>Festuca arundinaceae</i>
ryegrass, perennial	<i>Lolium perenne</i>

Established Warm Season Turfgrasses

<u>Common Name</u>	<u>Scientific Name</u>
bahiagrass	<i>Paspalum notatum var. sauriae parodi</i>
bermudagrass (including bermudagrass fairways)	<i>Cynodon spp.</i>
buffalograss	<i>Buchloe dactyloides</i>
centipedegrass	<i>Eremochloa ophiuroides</i>
kikuyugrass	<i>Pennisetum clandestinum</i>
seashore paspalum	<i>Paspalum vaginatum</i>
zoysiagrass	<i>Zoysia japonica</i>
zoysiagrass	<i>Zoysia tenuifolia</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
fescue, tall (growing in warm season areas)	<i>Festuca arundinaceae</i>

Note: Lontrel Turf and Ornamental may discolor and/or stunt turf that is not well established or is stressed or weakened due to unfavorable climatic conditions, temperature extremes, drought, nematodes, or other factors that damage or weaken turf. To avoid unacceptable turf injury, apply Lontrel Turf and Ornamental only to healthy, well-established turf that has a well-anchored root system.

Specific Use Restrictions:

- **Do not** use on residential turf. Turfgrass and lawn uses are restricted to non-residential sites.
- **Do not** send grass clippings to a compost facility.
- **Do not** collect grass clippings for mulch or compost.
- Applicator must give notice to landowners/property managers to not use grass clippings for composting.
- In the states of California, Oregon and Washington, turfgrass and lawn uses are restricted to golf courses only.

Ornamentals (Landscapes and Nurseries)

Lontrel Turf and Ornamental may be used for selective postemergence control of labeled broadleaf weeds in new and established plantings of selected ornamentals. See Weeds Controlled and Use Rate Recommendations in General Information section.

Specific Use Precautions:

- Due to the wide variety of plants found in commercial and residential landscape settings and to avoid injury to non-target species, use only spot and directed sprays on labeled ornamental species in landscape settings.
- **Do not** apply Lontrel Turf and Ornamental to legumes (pod bearing plants such as acacia, locust, mimosa, redbud, or mesquite) or littleleaf linden (*Tilia cordata* and other *Tilia* species). Lontrel Turf and Ornamental is also highly active on composites such as perennial daisies and sunflowers, and solanaceae (nightshade) species such as potato vine and Jerusalem cherry. Do not allow spray or spray drift to come in contact with desirable plants belonging to these families or severe plant injury or death may occur.
- **Do not** tank mix Lontrel Turf and Ornamental with other herbicides labeled for use in ornamentals.
- **Do not** apply to container grown ornamentals.
- For treatment of nursery ornamentals not found in this section refer to Precautions and Restrictions.

Broadcast Application – Nursery

Apply as an over-the-top broadcast foliar spray or as a directed spray. Apply in 20 gallons or more per acre total spray volume using ground equipment only. Multiple applications may be made as long as the total rate per growing season does not exceed 1 1/3 pint per acre. In California, Florida and New York the maximum use rate is 2/3 pint per acre per growing season. Apply to new plantings only after they are well established. See Weeds Controlled and Use Rate Recommendations in General Information section.

Spot Treatment - Landscape and Nursery

Spot treatments using hand-held equipment are allowed, but avoid contact with tree foliage or limit contact to lower branches. Apply to weeds on a spray-to-wet basis with a uniform and complete spray coverage. See additional instructions for spot applications using hand-held application equipment in Application Directions section.

Control of Canada Thistle in Landscapes and Nurseries: For effective control of Canada thistle, apply Lontrel Turf and Ornamental at the rate of 2/3 pint per acre when the majority of thistle plants have emerged and are from 6 to 8 inches in height or diameter to bud stage. In landscape settings, apply only as a directed spot application as described above to avoid injuring non-target plants. In nurseries, a spot treatment or broadcast application may be made as described above.

Cultivation: For best results, do not cultivate areas before or after application since cultivation can disrupt translocation of the herbicide to the roots of Canada thistle and reduce control. If cultivation is necessary following application, it should be delayed 14 to 20 days.

Lontrel Turf and Ornamental may be used in established plantings of the following ornamental trees, shrubs, and ornamental grasses:

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Trees

Common Name	Scientific Name	Recommended Method of Application [†]
dogwood, flowering	<i>Cornus florida</i>	D
fir, balsam	<i>Abies balsamea</i>	O, D
fir, Douglas	<i>Pseudotsuga menziesii</i>	O, D
fir, fraser	<i>Abies fraseri</i>	O, D
fir, grand	<i>Abies grandis</i>	O, D
fir, noble	<i>Abies procera</i>	O, D
maple, red	<i>Acer rubrum</i>	D
oak, red	<i>Quercus rubra</i>	D
oak, willow	<i>Quercus phellos</i>	D
pine, lodgepole	<i>Pinus contorta</i>	O, D
pine, ponderosa	<i>Pinus ponderosa</i>	O, D
pine, Scotch	<i>Pinus strobus</i>	O, D
pine, white	<i>Pinus sp.</i>	O, D
spruce, Norway	<i>Picea abies</i>	O, D
spruce, white	<i>Picea glauca</i>	O, D
spruce, Colorado (blue)	<i>Picea pungens</i>	O, D
sycamore, American	<i>Platanus occidentalis</i>	D

[†]O=Overtop spray; D=Directed Spray**Shrubs**

Common Name	Scientific Name	Recommended Method of Application [†]
arborvitae, American	<i>Thuja occidentalis</i>	O, D
arborvitae, nigra-dark American	<i>Thuja occidentalis</i>	O, D
azalea, hino-crimson	<i>Rhododendron obtusum</i>	O, D
boxwood, littleleaf	<i>Buxus microphylla</i>	O, D
cinquefoil	<i>Potentilla fruticosa</i>	D
juniper, shore	<i>Juniperus conferta</i>	O, D
juniper, blue rug	<i>Juniperus horizontalis</i>	O, D
juniper, blue star	<i>Juniperus squamata</i>	O, D
pine, mugo-mugho	<i>Pinus mugo</i>	O, D
rhododendron, roseum elegans	<i>Rhododendron catawbiense</i> 'roseum elegans'	O, D
spiraea, Anthony Waterer	<i>Spiraea bumalda</i>	D
yew	<i>Taxus media</i>	O, D

[†]O=Overtop spray; D=Directed Spray**Ornamental Grasses**

Common Name	Scientific Name	Recommended Method of Application [†]
adagio miscanthus	<i>Miscanthus sinensis</i> var. 'Adagio'	O, D
autumn moor	<i>Stipa tenuissima</i> var.	O, D

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	'Ponytails'	
autumn red flame	<i>Miscanthus sinensis</i> var. 'Purpurascens'	O, D
blaze little bluestem	<i>Schizachyrium scoparium</i> var 'Blaze'	O, D
blue grama	<i>Bouteloua gracilis</i>	O, D
blue lyme	<i>Leymus arenarius</i>	O, D
blue moor	<i>Sesleria caerulea</i>	O, D
bottle-brush	<i>Hystrix patula</i>	O, D
common quaking	<i>Briza media</i>	O, D
dwarf's garters ribbon	<i>Phalaris arundinaceae</i> var. 'Woods dwarf'	O, D
feathertop	<i>Pennisetum villosum</i>	O, D
fountain grass	<i>Pennisetum alopecuroides</i>	O, D
dardener's garters	<i>Phalaris arundinaceae</i> var. 'Picta'	O, D
hamein fountain grass	<i>Pennisetum alopecuroides</i> var. 'Hameln'	O, D
Japanese blood grass	<i>Imperata cylindrica</i> var. 'red baron'	O, D
Karl Foerster feather reed	<i>Calamagrostis acutiflora</i> var. 'Foerster'	O, D
Korean feather reed	<i>Calamagrostis brachytricha</i>	O, D
maiden	<i>Miscanthus sinensis</i> var. 'Gracillimus'	O, D
moudry fountain	<i>Pennisetum alopecuroides</i> var. 'Moudry'	O, D
Northern sea oats	<i>Chasmanthium latifolium</i>	O, D
pampas	<i>Cortaderia selloana</i>	O, D
pink crystals ruby	<i>Rhynchelytrium nerviglume</i> var. 'Pink'	O, D
ponytails feather Mexican	<i>Stipa tenuissima</i> var. 'Ponytails'	O, D
purple fountain	<i>Pennisetum setaceum</i> var. 'Rubrum'	O, D
ravenna	<i>Saccharum ravennae</i>	O, D
rosea pampas	<i>Cortaderia selloana</i> var. 'Rosea'	O, D
sarabande miscanthus	<i>Miscanthus sinensis</i> var. 'Sarabande'	O, D
strawberries & cream ribbon	<i>Phalaris arundinaceae</i> var. 'Feeseey'	O, D
striped tuber oat	<i>Arrhenatherum elatius</i> var. 'Variegatum'	O, D
trailblazer switch	<i>Panicum virgatum</i> var. 'Trailblazer'	O, D
trailway side-oats	<i>Bouteloua curtipendula</i> var. 'Trailway'	O, D
tufted hair	<i>Deschampsia cespitosa</i>	O, D
variegated miscanthus	<i>Miscanthus sinensis</i> var. 'Variegatus'	O, D

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white flowering fountain	<i>Pennisetum alopecuroides</i> var. 'Caudatum'	O, D
zebra	<i>Miscanthus sinensis</i> var. 'Zebrinus'	O, D

¹O=Overtop spray; D=Directed Spray

Field Grown Lilies

Lontrel Turf and Ornamental may be applied as a broadcast foliar spray from early spring to fall. Refer to Weeds Controlled Use Rate Recommendations section for information on application timing, rates and weeds controlled. Only established weeds will be controlled. For spring planted bulbs, delay application until soil covering the newly planted bulbs has been settled by irrigation or rainfall.

Dichondra Turf and Dichondra Grown for Seed

Apply as a broadcast foliar spray. Apply in 20 gallons or more per acre total spray volume on Dichondra Lawns and in 20 gallons or more per acre on Dichondra Grown for Seed using ground equipment only. See Weeds Controlled and Use Rate Recommendations in General Information section. Multiple applications may be made as long as the total rate per growing season **does not exceed 2/3 pint per acre**. Apply to new plantings only after they are well established.

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