

62719-305

4-23-2002

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other (X)

OPP Identifier Number

286852

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 [X]
Final printed labels in response to Agency letter dated []
'Me Too' Application []
Other- Explain below []
NOTIFICATION APR 23 2002

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
Proposed Change by Notification:
1. At the request of California, added the following statement to the bullet points under General Use Precautions: "In the State of California, this product cannot be used on residential turf."

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging [] Yes* [] No
Unit Packaging [] Yes [] No
Water Soluble Packaging [] Yes [] No
2. Type of Container: Metal [] Plastic [] Glass [] Paper [] Other (Specify) []
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. (Include Area Code): 317/337-4685
Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature: [Handwritten Signature] 3. Title: Regulatory Manager
4. Typed Name: Kimberly S. Gilbert, Regulatory Manager 5. Date: April 16, 2002
8. Date Application Received (Stamped)

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Lontrel* Turf and Ornamental

EPA Reg. No. 62719-305

Registration Notes:

Source label text based on EPA-accepted copy dated March 07, 2001, EPA correspondence dated June 15, 2001 and Notification coded "A2A / Lontrel Turf and Ornamental / Notif / 08-23-01."

Proposed change by notification:

1. At the request of California, added the following statement to the bulleted points under General Use Precautions: "In the state of California, this product cannot be used on residential turf."

*Trademark of Dow AgroSciences LLC

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(Base Label)

(Logo) Dow AgroSciences

Lontrel* Turf and Ornamental

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Eye Injury + Harmful If Inhaled Or Absorbed Through Skin

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

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Environmental Hazards

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

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 that 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

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.

EPA Reg. No. 62719-305

EPA Est. _____

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

Herbicide

Net Contents XXX

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(Label Booklet Cover)

(Logo) Dow AgroSciences

Lontrel* Turf and Ornamental

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

Active Ingredient:

clopypalid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt	40.9%
Inert Ingredients.....	59.1%
Total.....	100.0%

Acid Equivalent: clopypalid: 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 inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, and 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.

EPA Reg. No. 62719-305

EPA Est. 464-MI-1

*Trademark of Dow AgroSciences LLC
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 Eye Injury Harmful If Inhaled Or Absorbed Through Skin****Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist.****Personal Protective Equipment (PPE)****Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

Environmental Hazards

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

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 that 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**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
- Waterproof gloves
- 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 or disposal.

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). 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). 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 turf, including turf grown for seed or sod farms, and certain woody ornamental plantings, such as conifers and tolerant woody species, in landscapes and nurseries.

General Use Precautions

- 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.

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- Do not apply by aircraft.
- Do not use in a greenhouse.
- Do not make broadcast applications to ornamental plantings in landscape settings, however, spot 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 three 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 use grass clippings from treated turf for mulching.
- Do not use compost containing grass clippings from treated turf in the growing season of application.
- In California, Florida and New York the maximum use rate is 2/3 pint/acre per growing season.
- Sale and use of this product in Suffolk and Nassau counties in the state of New York is prohibited.
- In the state of California, this product cannot be used on residential turf.
- **Chemigation:** Do not apply this product through any type of irrigation system.

Crop Rotation Restrictions

Residues of this product in treated plant tissues which 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 which 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 establishment 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 90-120 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.

Advisory Statements

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 30-60 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.

Precautions for 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

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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. Where necessary, a drift control or deposition agent suitable for agricultural use may be used with this product to aid in reducing spray drift. If used, follow all use recommendations and precautions on the product label.

To minimize spray drift, apply this product in a total spray volume of 20 or more gallons per acre as large-droplet, low-pressure spray. Refer to the spray equipment manufacturer's recommendations for additional information on spray volume, spray pressure, sprayer speed, type and arrangement of nozzles, height of nozzles above the target canopy, etc. Spray drift can be lessened by keeping the spray boom as low as possible; by using no more than 30 pounds per square inch (psi) spraying pressure with large droplet-producing nozzle tips; by using larger nozzle tips rather than increasing pressure to increase spray volume; by spraying when wind velocity is low. Do not apply with hollow cone-type insecticide nozzles or other nozzles that produce a fine-droplet spray. Keep operating spray pressures at the lower end of the manufacturer's recommended pressure range for the specific nozzle type used. Low pressure nozzles are available from spray equipment manufacturers. Select nozzles and pressures that provide adequate plant coverage but minimize the production of fine spray particles. Avoid application under completely calm conditions which may be conducive to air inversions.

Sprayer Clean-Out

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

1. Rinse and flush application equipment thoroughly after use at least three times with water. Dispose of all rinse water by application to treatment area or apply 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 min). 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.

Tank Mixing (Turf Only)

Lontrel Turf and Ornamental may be applied in tank mix combination with labeled rates of other products provided (1) the tank mix product is labeled for the use site (timing and method of application is the same as Lontrel Turf and Ornamental); and (2) tank mixing with Lontrel Turf and Ornamental 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

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- 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 or carriers. Use a clear glass jar with lid and mix the tank mix ingredients in their relative proportions. The tank mixture is compatible if the materials mix readily when the jar is inverted several times. The mixture should remain stable after standing for ½ hour or, if separation occurs, should readily mix if agitated. An incompatible mixture is indicated by separation into distinct layers which do not readily remix when agitated and the presence of large flakes, precipitates, gels, or heavy oily film on the jar.

Application Directions

Application Timing

Apply to actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at, and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. This product is effective only on weeds emerged at the time of application. If foliage is wet at the time of application, control may be decreased. This product becomes rainfast within 2 hours after application.

Spray Coverage

Use sufficient spray volume to provide thorough and uniform spray coverage of target weeds. For best results, apply in a spray volume of 20 or more gallons per acre. In general, spray volume must be increased as crop canopy, height and weed density increase in order to obtain equivalent weed control. Use only nozzle types and spray equipment designed for herbicide 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.

Spot Treatments

To prevent misapplication, spot treatments should be applied with a calibrated boom or with hand sprayers using a fixed spray volume per 1,000 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 1,000 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 3,500 sq ft, multiply the table value by 3.5 (calc. 3,500 ÷ 1,000 = 3.5). An area of 1000 sq ft is approximately 10.5 X 10.5 yards (strides) in size.

Amount of Lontrel Turf and Ornamental per 1000 Square Feet 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

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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)
clover (red, hop, white, sweet)		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 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 dandelion, common groundsel, common horsetweed 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 (Repeat Treatment May Be Necessary): buffalo bur buttercup, hairy buttonweed, Virginia dollarweed knapweed, Russian	kudzu ladysthumb mesquite plantain, broadleaf sowthistle, perennial	1 1/3 1/2 (15 ml)

[†] 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

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Approved Uses

Turf Grasses (Including Turf Grown for Seed or Sod)

Apply Lontrel Turf and Ornamental in enough water to deliver 20 or more gallons 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 Turf Grasses

Common Name

bentgrass (including bentgrass fairways)
bluegrass, Kentucky
fescue, chewing
fescue, creeping red
fescue, sheeps
fescue, tall
ryegrass, perennial

Scientific Name

Agrostis species
Poa pratensis
Festuca rubra var. *commutata*
Festuca rubra
Festuca ovina
Festuca arundinaceae
Lolium perenne

Established Warm Season Turf Grasses

Common Name

bahiagrass
bermudagrass (including bermudagrass fairways)
buffalograss
centipedegrass
kikuyugrass
zoysiagrass
zoysiagrass
St. Augustinegrass
fescue, tall (growing in warm season areas)

Scientific Name

Paspalum notatum var. *saurae parodi*
Cynodon spp.

Buchloe dactyloides
Eremochloa ophiuroides
Pennisetum clandestinum
Zoysia japonica
Zoysia tenuifolia
Stenotaphrum secundatum
Festuca arundinaceae

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 which 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.

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.

Use Precautions:

- Due to the wide variety of plants found in **landscape settings** and to avoid injury to non target species do not make broadcast applications, but use spot and directed sprays on labeled ornamental species only 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

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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 "Advisory Statements" section.

Application

Nursery – Broadcast Application: Apply as an over-the-top broadcast foliar spray or as a directed spray as noted. Apply in 20 or more gallons 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 pt/acre. In California, Florida and New York the maximum use rate is 2/3 pint/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 also allowed, but contact with tree foliage should be avoided or limited to lower branches. Apply to weeds on a spray-to-wet basis with spray coverage uniform and complete. 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 pt/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 applications 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 and Shrubs:

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

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†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

Non Bearing Fruit and Nut Plants

Common Name	Scientific Name	Recommended Method of Application†
apple	<i>Malus sp.</i>	D
walnut, black	<i>Juglans nigra</i>	D

†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 or more gallons per acre total spray volume on Dichondra Lawns and in 20 or more gallons 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 pints/acre**. Apply to new plantings only after they are well established.

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