

464-600

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1068

Specimen Label

LONTREL* 3A

Herbicide

INSERT A → ~~For the Control of Annual and Perennial Broadleaf Weeds in Fallow Cropland and Non-cropland Areas.~~

Active Ingredient(s):

Coppyralid (3,6-dichloro-2-pyridinecarboxylic acid) as the monoethanolamine salt 40.9%
Inert Ingredients 59.1%

ACID EQUIVALENT:

3,6-dichloro-2-pyridinecarboxylic acid, 31% - 3 lb/gal

E.P.A. Registration No. 464-600

E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUSES EYE INJURY • HARMFUL IF

INHALED ↑ Skin

Avoid Contact With Eyes Or Clothing •

Avoid Breathing Spray Mist • Wash

Thoroughly With Soap And Water After

Handling • Remove Contaminated Clothing And Wash Before Reuse

STATEMENTS OF PRACTICAL TREATMENT: If in eyes, flush with plenty of water. Get medical attention if irritation persists. ↑

Physical or Chemical Hazards

COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame. • Do Not Cut or Weld Container.

If on skin, wash with plenty of soap and water. Get medical attention.

Environmental Hazards

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used for irrigation or domestic purposes. Do not apply directly to any body of water or wetlands. See additional precautionary statements elsewhere on this label.

NOTICE

Read the entire label. Use only according to label directions. Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under "WARRANTY LIMITATIONS AND DISCLAIMER."

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

LONTREL* 3A

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OR ABSORBED THROUGH SKIN

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INFORMATION

LONTREL 3A Herbicide is recommended for the control of Canada thistle, wild buckwheat, ladythumb (smartweed), diffuse knapweed, mayweed, scentless chamomile, sunflower, cocklebur and common velvet infesting fallow, cropland and non-cropland areas such as fencerows, around farm buildings, roadsides and equipment pathways.

APPLICATION DIRECTIONS

Apply 1/4 to 1/2 pint of LONTREL 3A per acre when weeds are 1 to 3 inches tall. Apply 1/2 pint of LONTREL 3A per acre when weeds are 3 to 6 inches tall or under dry conditions. Where Canada thistle or knapweeds are the primary pest, best results are obtained by applying 1/2 pint of LONTREL 3A per acre when weeds are 3 to 6 inches tall.

For aerial or ground treatment, use enough total spray volume to provide adequate spray coverage. Apply 2 or more gallons per acre by air and 5 or more gallons per acre by ground. Spray pressure should not exceed 30 psi. Use a coarse spray to minimize spray drift. The use of a drift control and deposition aid such as NALCO-TROL is recommended. Do not apply where spray drift may be a problem due to proximity of susceptible crops or other desirable plants.

Apply during warm weather when weeds are young and growing actively. Best results should be obtained when soil moisture is adequate for plant growth and weeds are growing well.

USE PRECAUTIONS

Apply only once per season. 12 month period.

Do not plant crops in treated fallow land for one year after application.

Do not apply LONTREL 3A Herbicide directly to or allow spray drift to come in contact with vegetables, flowers, grapes, tomatoes, potatoes, beans or other desirable broadleaf crops and ornamental plants.

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

Avoid Spray Drift: Applications should be made to avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible crops during both growing and dormant periods. Use coarse sprays to minimize drift since, under adverse weather conditions, fine spray droplets may drift a mile or more. Drift control additives such as NALCO-TROL may be used with this product to aid in reducing spray drift. All use recommendations and precautions on the drift control label should be followed completely to assure proper mixing and maximum effectiveness.

Ground Application: With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by using no more than 30 pounds spraying pressure with large droplet-producing nozzle tips; by spraying when wind velocity is low; and by stopping all spraying when wind exceeds 6 to 7 miles per hour. Do not apply with hollow cone type insecticide or other nozzles that produce a fine droplet spray.

Aerial Application: With aircraft, drift can be lessened by applying a coarse spray; by using no more than 30 pounds spraying pressure at the nozzle; by using straight-stream nozzles directed straight back; by using a spray boom no longer than 3/4 the wing span of the aircraft; and by spraying only when the wind velocity is less than 6 mph.

Do Not Apply By Aircraft When An Air Temperature Inversion Exists: Such a condition is characterized by little or no wind and with lower air temperature near the ground than at higher levels. The use of a smoke device on the aircraft or continuous smoke column at or near the site of application will indicate air direction and velocity, and whether a temperature inversion is present, which is shown by the layering of the smoke.

Do not allow windstorms may move soil particles. If this product is on soil particles and they are blown onto susceptible plants, visible symptoms may appear. Serious injury is unlikely. The hazard of movement of this product on soil is reduced if treated fields are irrigated or if rain occurs shortly after application.

Do not use in a greenhouse. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth.

Do not contaminate water areas nearby by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

PRECAUTIONARY STATEMENTS

Environmental Hazards

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.

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.

Container Disposal: Metal 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.

Container Disposal: Plastic 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.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. **THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL.** Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. **THE EXCLUSIVE REMEDY, OF THE BUYER OR USER AND THE LIMIT OF LIABILITY OF THE Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:**

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- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

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INSERT A

For Selective Control of Broadleaf Weeds in Wheat, Barley and Oats Not Underseeded With a Legume, Fallow Cropland, Rangeland and Permanent Grass Pastures, Ornamental Turf, Non-Cropland Areas and Conservation Reserve Program (CRP) Acres

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~~Do not apply this product through any type of irrigation system.~~

LONTREL 3A Herbicide is recommended for the control of Canada thistle (rosette to pre-bud), wild buckwheat, ladythumb, green smartweed, diffuse and spotted knapweed, mayweed (doofennel), musk thistle (rosette to bud), scentless chamomile (false), sunflower (common and wild), sowthistle (annual and perennial), cocklebur, ragweed and common vetch infesting wheat, barley and oats not underseeded with a legume, fallow cropland, rangeland and permanent grass pastures, ornamental turf, conservation reserve program (CRP) acres and non-cropland areas including fence rows, around farm buildings, equipment pathways, industrial manufacturing and storage sites, and rights-of-way such as along roadsides, electrical power lines, communication lines, pipelines and railroads.

For aerial or ground treatment, use enough total spray volume to provide uniform spray coverage. Apply 2 or more gallons total spray volume per acre by air or when using a SPRAY-COUFFE and 5 or more gallons total spray volume per acre with other ground equipment. Do not apply where spray drift may be a problem due to proximity of susceptible crops or other desirable plants. Apply during warm weather when weeds are young and growing actively. Best results should be obtained when soil moisture is adequate for plant growth. This product can affect plants directly through foliage and indirectly by root uptake from treated soil.

When tank mixing, read and follow the label of each tank-mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosages should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Fallow Cropland: Apply 1/4 to 1/2 pint of LONTREL 3A Herbicide per acre when weeds are 1 to 3 inches tall. Apply 1/2 pint per acre when weeds are 3 to 6 inches tall or under dry conditions. Where Canada thistle or knapweeds are the primary pest, best results are obtained by applying 1/2 pint of LONTREL 3A per acre when weeds are 3 to 6 inches tall.

Non-Cropland: Apply 1/4 to 1/2 pint of LONTREL 3A Herbicide per acre when weeds are 1 to 3 inches tall. Apply 1/2 pint per acre when weeds are 3 to 6 inches tall or under dry conditions. Where Canada thistle or knapweeds are the primary pest, best results are obtained by applying 1/2 pint of LONTREL 3A Herbicide per acre when weeds are 3 to 6 inches tall. To improve the spectrum of activity or to increase activity against taller weeds, LONTREL 3A may be tank mixed with 0.5 to 1.5 lbs ae per acre of GARLON 3A Herbicide or GARLON 4 Herbicide, or with 0.5 to 2.0 lbs ae per acre of 2,4-D amine or low volatile ester.

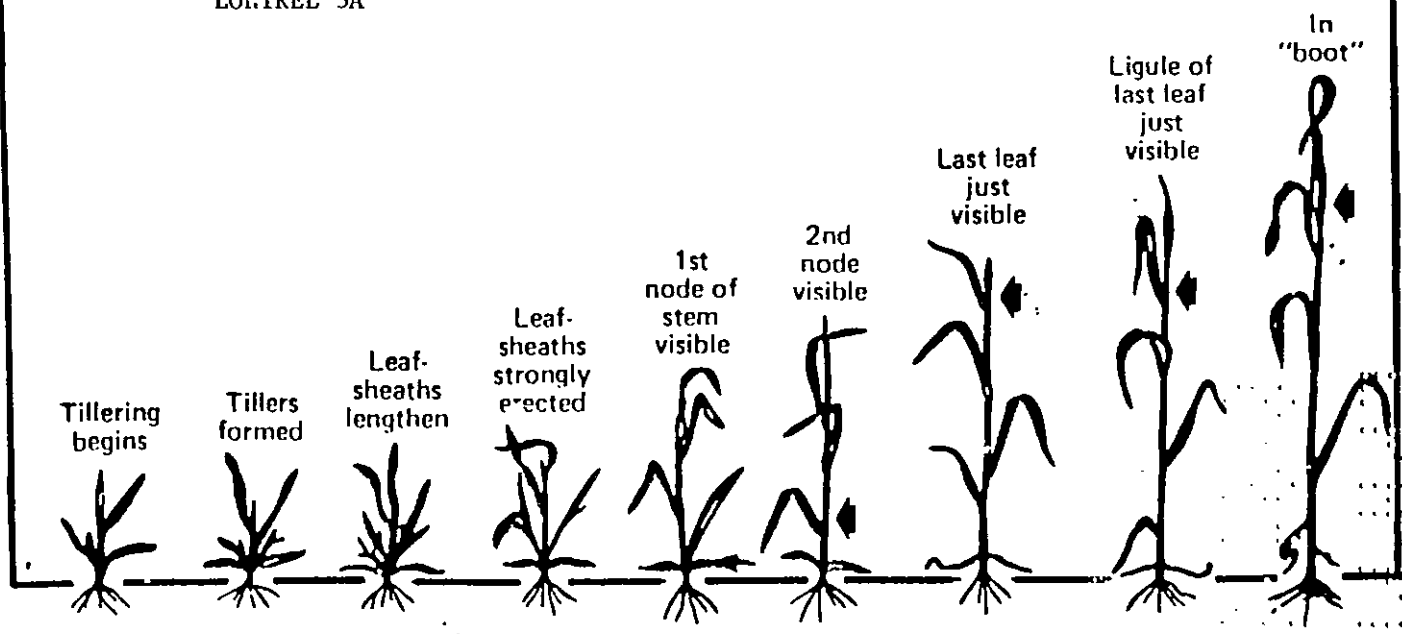
Ornamental Turf: LONTREL 3A is recommended for the control of Canada thistle, dandelion, black medic, hop clover, red clover, white clover, creeping beggarweed, dwarf beggarweed and common vetch infesting ornamental turf.

Apply 1/4 to 1/2 pint of LONTREL 3A per acre to weeds actively growing in cool season turf grass (tall fescue, perennial bluegrass, or perennial ryegrass turf) or warm season turf grass (bermudagrass, bahiagrass or centipedegrass turf). Do not use on other grass species unless injury can be tolerated. Apply 1/2 pint per acre when weeds are large, under dry conditions or where Canada thistle is the primary pest. To improve the spectrum of activity on cool season grasses, tank mix LONTREL 3A with 0.25 to 0.5 lb ae per acre of TURFLON Amine Herbicide. Mix in enough water to make 20 to 175 gallons total spray per acre. Spray pressure should not exceed 20 psi at the nozzle. To lessen the chance of particle drift, use only lawn-type sprayers that produce coarse droplets. Newly seeded turf should be mowed two or three times before being treated. Do not reseed for 3 weeks after application. Do not water for 24 hours after application.

To prepare the spray, add half the desired amount of clean water to the spray tank. With agitation, add the amount of LONTREL 3A required and the remaining amount of water. Mix thoroughly and continue moderate agitation while spraying.

Wheat, Barley and Oats: Apply 1/4 to 1/3 pint of LONTREL 3A per acre from the 3 leaf stage up to early boot stage of growth. NOTE: Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 1 week after treatment. Do not harvest hay from treated grain fields.

APPLICATION PERIOD FOR
LONTREL 3A



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Tank Mixtures for Wheat, Barley and Oats: Tank mix 1/4 to 1/3 pint per acre of LONTREL 3A with the herbicides listed below for the control of additional weeds.

Active Ingredient Product Name Product Name		Amount of Product per Acre per Acre
2,4-D (1)		
2,4-D Amine or Ester	4 lb/gal	1/2-1 pt
MCPA		
MCPA Amine or Ester	4 lb/gal	1/2-1 pt
bromoxynil		
BROMINAL or BUCTRIL	2 lb/gal	3/4-1 pt
ME4 BROMINAL	4 lb/gal	3/8-1/2 pt
bromoxynil + MCPA		
BRONATE	2+2 lb/gal	1 pt
chlorsulfuron		
GLENN 75% DF		1/6-1/4 wt oz
dicamba		
BANVEL	4 lb/gal	1/8-1/4 pt
terbutryn (1)		
IGRAN 80% WP		7.5-12.5 wt oz
metribuzin (1)		
SENCOR 75 DF or LEXONE DF		2.5-4 wt oz
LEXONE 4L or SENCOR 4	4 lb/gal	3.7-6 fl oz
LEXONE 50 WP		3.75-6 wt oz
diuron		
DIREX 4L or DIURON 4L	4 lb/gal	3.4 to 4-1/4 pt

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1) Tank mix for application on wheat and barley only.

Rangeland and Permanent Grass Pastures: Apply 2/3 to 1-1/3 pints of LONTREL 3A per acre when weeds are young and actively growing. Grasses are tolerant, but new grass seedlings may be injured to varying degrees until the grass has become well established.

NOTE: Many forbs are susceptible to LONTREL 3A. Do not spray pastures containing desirable forbs, especially legumes, unless injury can be tolerated. However, the stand and growth of established perennial grasses is usually improved after spraying, especially when rainfall is adequate and grazing is deferred.

Do not use hay from treated areas for composting or mulching on susceptible broadleaf crops.

CONSERVATION RESERVE PROGRAM (CRP):
FOR SEEDING TO PERMANENT GRASSES ONLY

Do not use LONTREL 3A Herbicide if legumes or bentgrass are a desired cover during CRP.

Grass grown on CRP acres cannot be grazed or used for hay.

Conditions that stress grasses, such as drought, will increase potential for injury to the grass at all stages of growth. Do not use in newly seeded areas until grass is established.

After CRP, do not plant broadleaf crops in treated areas until an adequately sensitive bioassay shows that no detectable clopyralid is present in the soil.

Broadcast Applications (Aerial and Ground): Applications of LONTREL 3A Herbicide should be made when perennial grasses have become established (has tillered, developed a good secondary root system and shows good vigor) since most perennial grasses have shown better tolerance to the herbicide at that stage.

For control of actively growing weeds such as musk thistle (after the rosette stage), Canada thistle and knooweed (spotted, diffuse and Russian), use 2/3 to 1-1/3 pints per acre of LONTREL 3A Herbicide after the grass is well established. For the control of wild buckwheat, volunteer sunflower and musk thistle rosettes, apply 2/3 pints per acre of LONTREL 3A Herbicide. LONTREL 3A Herbicide can also be tank mixed with 1/2 to 1 lb/acre of 2,4-D where species present are sensitive to 2,4-D. For best results, use in 2 or more gallons of water per acre by air or in 5 or more gallons of water per acre by ground. Increasing the rate of application can increase the risk of injury. Application prior to the flowering stage is recommended (still in the bud stage).

ENDANGERED SPECIES RESTRICTIONS

The following restrictions apply to use of this product after February 1, 1988.

Before using this pesticide on range and/or pastureland in the counties listed below, you must obtain the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES is a violation of Federal laws.

ALABAMA

Cherokee, De Kalb, Etowah, Jackson and Marshall

ARIZONA

Cochise, Coconino, Gila, Graham, Maricopa, Mohave, Navajo, Pima, Pinal and Yavapai

CALIFORNIA

Alameda, Butte, Colusa, Contra Costa, Fresno, Glenn, Inyo, Lake, Los Angeles, Mendocino, Merced, Nevada, Orange, Sacramento, San Benito, San Bernardino, San Clemente Island, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Barbara Island, Solano, Sutter, Tehama, Ventura and Yolo

COLORADO

Delta, Jackson, La Plata, Mesa, Montezuma and Montrose

FLORIDA

Charlotte, Franklin, Jefferson, Lee, Liberty and Orange

GEORGIA

Brantley, Towns and Wayne

HAWAII

Islands of Hawaii and Maui and the District of Lahaina

INSERT B (cont'd)

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IDAHO

Idaho

ILLINOIS

Dupage, Lee, McHenry, Ogle and Winnebago

IOWA

Butler, Clarke, Dickinson, Emmet, Howard, Kossuth, Lucas, Osceola, Story and Winneshiek

KENTUCKY

Fleming, Nicholas and Robertson

MINNESOTA

Cottonwood, Goodhue, Jackson and Renville

MISSOURI

Christian, Dade and Greene

NEBRASKA

Cherry, Garden and Hooker

NEVADA

Nye

NEW MEXICO

Catron, Chaves, Dona Ana, Eddy, Lincoln, McKinley, Otero, San Juan and Sierra

NORTH CAROLINA

Henderson

OREGON

Harney and Wallowa

SOUTH CAROLINA

Greenville and McCormick

TENNESSEE

Davidson, Rutherford and Wilson

TEXAS

Bandera, Brazos, Brewster, Burleson, Culberson, Edwards, El Paso, Grimes, Harris, Hays, Hudspeth, Jim Wells, Kerr, Kimble, Kleburg, Nueces, Pecos, Presidio, Real, Refugio, Robertson, Runnels, San Augustine, Starr, Terrell, Uvalde, Val Verde and Zapata

UTAH

Beaver, Cache, Carbon, Duchesne, Emery, Garfield, Grand, Iron, Kane, Piute, San Juan, Sanpete, Sevier, Uintah, Utah, Washington and Wayne

WISCONSIN

Dane, Pierce, Rock and Sauk

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Do not plant or rotate to any crop for one year after treatment, except for wheat, barley, oats and grass. In extreme conditions where top soil remains cold or dry for extended periods of time following application, small areas of lentils or peas should be planted prior to planting more extensive areas of lentils, peas, safflower, potatoes, alfalfa, sunflowers or soybeans in order to determine if phytotoxic residues are present in the soil at a level that may affect these sensitive crops.