

# Specimen Label

## Curtail\* 205 Herbicide

For Selective Control of Broadleaf Weeds in Spring and Winter Wheat,  
Barley and Oats Not Underseeded With a Legume

### Active Ingredient(s):

Clopyralid (3,6-Dichloro-2-pyridinecarboxylic acid) as alkanolamine salts (of the ethanol and isopropanol series) ..... 6.3%

2,4-Dichlorophenoxyacetic acid as alkanolamine salts (of the ethanol and isopropanol series) ..... 31.9%

Acid as alkanolamine salts (of the ethanol and isopropanol series) ..... 62.2%

Inert Ingredients ..... 59.8%

Acid Equivalents: ..... 61.8%

3,6-Dichloro-2-pyridinecarboxylic acid 3.2% - 0.38 lb/gal

2,4-Dichlorophenoxyacetic acid 20.8% - 2.0 lb/gal

E.P.A. Registration No. 464-563

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

**KEEP OUT OF REACH OF CHILDREN**

### DANGER

### PELIGRO:

### 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 DAMAGE AND SKIN**

**IRRITATION • HARMFUL IF SWALLOWED**

**Do Not Get In Eyes, On Skin Or On Clothing**

**• Wear Goggles Or Face Shield When**

**Handling • 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 for at least 15 minutes. Get

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

water. Get medical attention if irritation persists. If

swallowed, induce vomiting immediately by giving two

glasses of water and sticking finger down throat. Call a

physician. Do not induce vomiting or give anything by

mouth to an unconscious person.

### Environmental Hazards

Keep out of lakes, streams or ponds. 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**

RECEIVED  
AUG 27 1987  
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464-563  
Curtail\* 205  
Herbicide

## DIRECTIONS FOR USE

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

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**CURTAIL 205 Herbicide** is recommended for selective control of unwanted broadleaf weeds in spring and winter wheat, barley and oats not underseeded with a legume.

For control of phenoxy resistant broadleaf weeds including Canada thistle, wild buckwheat, lady's thumb (smartweed), cudweed, mayweed, scentless chamomile and Russian thistle, apply CURTAIL 205 at a rate of 1-1/2 to 2 pints per acre. Use the lower dosage when weeds are small (1 to 3 inches tall) or the higher dosage when weeds are more advanced (3 to 6 inches tall) or under dry soil conditions. Where Kochia is a problem, use the 2 pint rate and spray before the weed height exceeds 3 inches. Where Canada thistle is a major problem, apply the 2 pint rate when the thistles are 3 to 6 inches tall.

For control of other broadleaf weeds including lambsquarters, pigweed, mustard, ragweed, pennycress, and sunflower, apply CURTAIL 205 at a rate of 1 to 1-1/2 pints per acre. Use the lower dosage when weeds are small (1 to 3 inches tall) or the higher dosage when weeds are more advanced (3 to 6 inches tall) or under dry soil conditions.

For aerial or ground treatment, use enough total spray volume to provide adequate spray coverage. Apply 1 to 4 gallons per acre by air and 5 to 20 gallons per acre by ground. Spray pressure should not exceed 20 psi. Use a coarse spray to minimize spray drift. Do not apply where spray drift may be a problem due to proximity of susceptible crops or other desirable plants.

Spray after grain begins tillering and before the boot stage (usually 4 to 6 inches tall). Do not apply from boot stage through the milk stage. 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. 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.

## USE PRECAUTIONS

Apply only once per season. 12 month period.

Do not apply CURTAIL 205 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.

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Do not rotate to any crop for one year after treatment, except those listed on this product label.

**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. The spray thickening agent NALCO-TROL may be used with this product to aid in reducing spray drift. If used, follow all use recommendations and precautions on the product label.

**Ground Application:** With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by applying no more than 20 gallons of spray per acre; by using no more than 20 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 20 pounds spray pressure at the nozzles; 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 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 site of application will indicate air direction and velocity, and whether a temperature inversion is present, which is shown by layering of the smoke.

Violent 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 dust 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 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 10°F or warm and agitate before use.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**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:

- (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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For Selective Control of Broadleaf Weeds in Wheat and Barley Not Underseeded With a Legume, Fallow Cropland And Conservation Reserve Program (CRP) Acres



**THE DOW CHEMICAL COMPANY**  
Midland, Michigan 48674 U.S.A.

\*Trademark of THE DOW CHEMICAL COMPANY

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

CURTAIL Herbicide is recommended for selective control of the following broadleaf weeds in wheat and barley not underseeded with a legume, fallow cropland and Conservation Reserve Program (CRP) acres.

Buckwheat, wild	Mustard, Jim Hill
Burdock (seedlings)	Nightshade
Chamomile, scentless (false)	Pennycress, field (fall rosettes and spring seedlings)
Clover, sweet	Plantain
Cornflower	Radish, wild
Cocklebur	Ragweed
Dandelion	Shepherd's purse (fall rosettes and spring seedlings)
Flixweed (fall rosettes and spring seedlings)	Smartweed
Goat's beard (seedlings)	Sowthistle, annual
Groundsel, common	* Sowthistle, perennial
Hawk's beard, narrow-leaf	Sunflower, annual
( Kochia (2-4 leaf)	Thistle, Canada (rosette to pre-bud)
Lambsquarters	Thistle, Russian (2-3 leaf)
Lettuce, prickly	Vetch, common
Mayweed (dogfennel)	
Mustard, wild	
Mustard, tansy (fall rosettes and spring seedlings)	* Suppression only

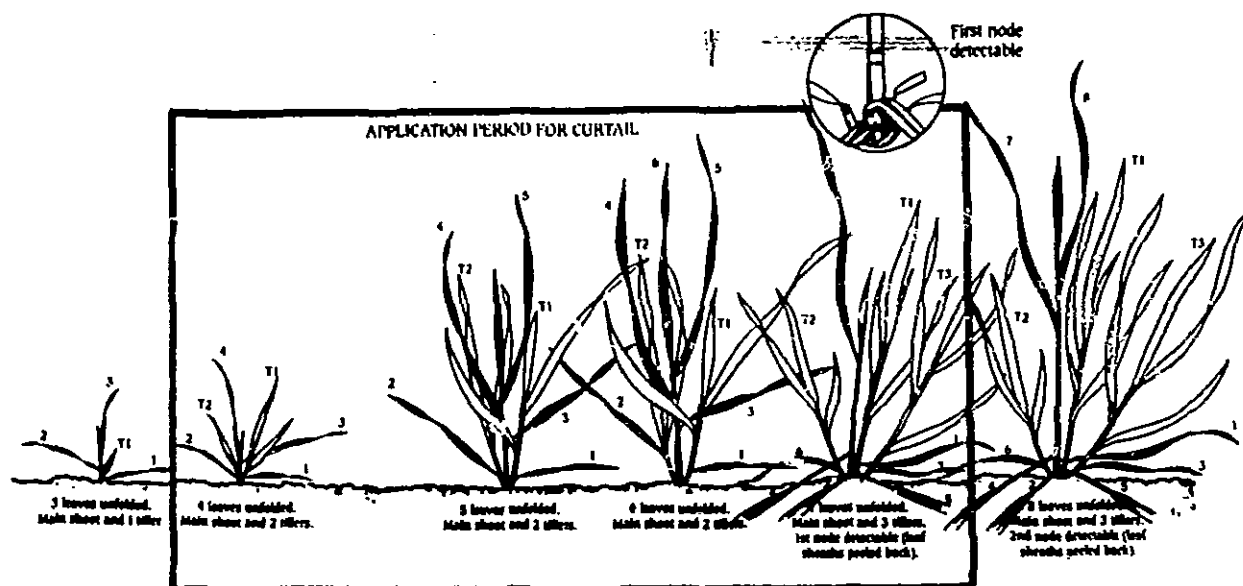
For aerial or ground treatment, use enough total spray volume to provide adequate spray coverage. Apply 2 or more gallons per acre by air and 5 or more gallons per acre by ground. Spray pressure should not exceed 30 psi. Use a coarse spray to minimize spray drift. Do not apply where spray drift may be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

Apply during warm weather when weeds are young and growing actively. Application should be delayed until maximum emergence of the target weeds but before the weeds exceed 6 inches in height. Best results should be obtained when soil moisture is adequate for plant 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.

Fallow Cropland: Apply 2 pints of CURTAIL Herbicide per acre when weeds are up to 3 inches tall. To improve the control of certain broadleaf weeds, such as Russian thistle and Kochia, when weeds are 3 to 6 inches tall or under dry conditions, up to 1.5 lb ae additional 2,4-D may be added.

Wheat and Barley: Apply 2 pints of CURTAIL Herbicide per acre after the crop begins tillering and before the boot stage (usually 4 to 8 inches tall and up to early jointing stage, 1st node detectable). Do not apply from boot stage through the milk stage. For larger weeds or under dry conditions, add up to 0.5 lb ae 2,4-D. Do not use higher rates of 2,4-D unless possible crop injury will be acceptable.

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## TANK MIXTURES FOR WHEAT AND BARLEY

This product may be tank mixed with the following herbicides for control of additional weeds in wheat and barley. Read and follow the label of each tank-mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions. When tank mixing, 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.

Active Ingredient Product Name		Amount of Product per Acre
bromoxynil		
BROMINAL or BUCTRIL	2 lb/gal	3/4-1 pt
ME4 BROMINAL	4 lb/gal	3/8-1/2 pt
chlorsulfuron		
GLEAN 75% DF		1/6-1/4 wt oz
dicamba		
BANVEL	4 lb/gal	1/8-1/4 pt
difenzoquat		
AVENGE	2 lb/gal	2.5-4 pts
terbutryn		
IGRAN 80% WP		7.5-12.5 wt oz
metribuzin		
SENCOR 75 DF or LEXONE DF		2.5-4 wt oz
LEXONE 4L or SENCOR 4	4 lb/gal	3.7-6 wt oz
LEXONE 50 WP		3.75-6 wt oz
diuron		
DIREX 4L or DIURON 4L	4 lb/gal	3/4 to 1-1/4 pt

compendium 1.6 lb ai / A  
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CONSERVATION RESERVE PROGRAM (CRP):  
FOR SEEDING TO PERMANENT GRASSES ONLY

Do not use CURTAIL Herbicide if legumes or bentgrass are a desired cover during CRP.

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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 CURTAIL 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 knapweed (spotted, diffuse and Russian), use 2-1/2 to 5 quarts per acre of CURTAIL Herbicide after the grass is well established. For the control of wild buckwheat, volunteer sunflower and musk thistle rosettes, apply 3 pints to 2-1/2 quarts of CURTAIL Herbicide. 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).

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Do not plant or rotate to any crop for one year after treatment, except for wheat, barley, oats or 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.