

FEB 27 1997

Dennis H. Lade, Ph.D.  
DowElanco  
9336 Zionsville Road  
Indianapolis, IN 46268

Dear Dr. Lade:

Subject: Curtail® Herbicide  
EPA Registration No. 62719-86  
Application and Letter Dated February 12, 1997, Request  
To Amend Labeling: Revised Rotational Crop Restrictions  
and Restriction on Use, To Allow Application Once  
Per Crop Use Season.

The proposed subject amendments to the label of Curtail Herbicide have been reviewed and found acceptable for registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended provided that you:

1. Revise the restriction on use to read: Apply only once per crop cycle, except for grasses grown for seed.
2. Submit one (1) printed copy of your final printed label before you release it for sale.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the proposed label is enclosed for your records.

Sincerely yours,

Joanne L. Miller  
Product Manager (23)  
Herbicides-erbicide Branch  
Registration Division (7500)

ENCLOSURE

Wilson, Lisquette-ABC 33; 62-27 CONCURRENTS

SYMBOL							
SURNAME							
DATE							

2412

(Base label)

(logo) DowElanco

**Curtail\* M**

**For Selective Control of Broadleaf Weeds in Wheat and Barley Not Underseeded with a Legume, Fallow Cropland, Grasses Grown for Seed, and Conservation Reserve Program (CRP) Acres.**

**Active Ingredient(s)**

3 6 dichloro 2 pyridinecarboxylic acid	5 0%
MCPA 2 methyl 4 chlorophenoxyacetic acid 2 ethylhexyl ester	43 4%
Inert Ingredients	51 6%
Total	100 0%

Contains Petroleum Distillates

**Acid Equivalents**

3 6 dichloro 2 pyridinecarboxylic acid	5 0%	0 42 lb/gal
2 methyl 4 chlorophenoxyacetic acid	27 8%	2 35 lb/gal

**ACCL**  
with **COMMENTS**  
In EPA Letter Dated  
**FEB 27 1997**

Under the Federal Insecticide  
Fungicide, and Rodenticide Act  
as amended for this pesticide  
registered under EPA Reg. No  
62719-86

**Precautionary Statements****Hazards to Humans and Domestic Animals****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)

**Causes Eye Injury • Harmful If Swallowed, Inhaled, Or Absorbed Through Skin****Avoid contact with eyes, skin, or clothing    Avoid breathing spray mist****Personal Protective Equipment (PPE)**

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for category B on an EPA chemical resistance category selections chart.

**Applicators and other handlers must wear**

- Long sleeved shirt and long pants
- Chemical resistant gloves such as Barrier Laminate or Butyl Rubber
- Shoes plus socks

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.

**BEST AVAILABLE COPY**

### Engineering Controls Statements

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protections Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS

### User Safety Recommendations

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

### Statement of Practical Treatment

**If in eyes** Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists

**If on skin** Wash with plenty of soap and water. Get medical attention if irritation persists

**If swallowed** Do not induce vomiting. Call a physician immediately

### 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 disposing of equipment washwaters or rinsate

### Physical or Chemical Hazards

**Combustible - Do not use or store near heat or open flame. Do not cut or weld container**

### 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 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 buying or using this product, read Warranty Disclaimer and Limitation of Remedies inside label booklet**

In case of emergency endangering health or the environment involving this product, call collect 517 636 4400

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

EPA Reg. No. 62719-86

EPA Est. 464 MI 1

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DowElanco • Indianapolis, IN 46268 USA

## Herbicide

Net Contents XXX

4912  
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(Datapack cover)

(logo) DowElanco

# Curtail\* M

**For Selective Control of Broadleaf Weeds in Wheat and Barley Not Underseeded with a Legume, Fallow Cropland, Grasses Grown for Seed, and Conservation Reserve Program (CRP) Acres.**

**Active Ingredient(s)**

clopyralid 3 6 dichloro 2		
pyndinecarboxylic acid	--	5 0%
MCPA 2 methyl 4		
chlorophenoxyacetic acid		
2 ethylhexyl ester		43 4%
Inert Ingredients	--	51 6%
Total	--	100 0%

Contains Petroleum Distillates

**Acid Equivalents**

3 6 dichloro 2 pyndinecarboxylic acid	5 0%	0 42 lb/gal
2 methyl 4 chlorophenoxyacetic acid,	27 8%	2 35 lb/gal

**Keep Out of Reach of Children**

## CAUTION PRECAUCION

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### 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 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 buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet**

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EPA Est 464 MI 1

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## Herbicide

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(Page 1 through end)

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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals****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 )

**Causes Eye Injury • Harmful If Swallowed, Inhaled, Or Absorbed Through Skin****Avoid contact with eyes, skin, or clothing    Avoid breathing spray mist****Personal Protective Equipment (PPE)**

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for category B on an EPA chemical resistance category selections chart

**Applicators and other handlers must wear**

- Long sleeved shirt and long pants
- Chemical resistant gloves such as Barrier Laminate or Butyl Rubber
- Shoes plus socks

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

**Engineering Controls Statements**

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protections Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS

**User Safety Recommendations**

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

**Statement of Practical Treatment**

**If in eyes** Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists

**If on skin** Wash with plenty of soap and water. Get medical attention if irritation persists

**If swallowed** Do not induce vomiting. Call a physician immediately

**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 disposing of equipment washwaters or rinsate

**Physical or Chemical Hazards**

**Combustible - Do not use or store near heat or open flame. Do not cut or weld container**

### 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 48 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 such as Barner Laminate or Butyl Rubber
- Shoes plus socks

### Storage And Disposal

Do not contaminate water food or feed by storage or disposal  
Store above 10° F or warm and agitate before use

**Pesticide Disposal** Pesticide wastes are toxic Improper disposal of excess pesticide spray mixture or  
residue is a violation of federal law and may contaminate groundwater 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

### General Use Precautions

**Chemigation** Do not apply this product through any type of irrigation system

Apply only once per ~~12-month period~~ crop use season except for grass grown for seed

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

Residues of Curtail M in treated plant tissue including the treated crop or weeds which has not decayed  
may affect succeeding susceptible crops

Wheat barley oats grasses or sugar beets (including beets grown for seed) may be planted less than 12  
months after treatment

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**Rotational Crop Restrictions****(All States Except Idaho, Nevada, Oregon, Utah and Washington)**

- Do not plant Wheat barley oats grasses and corn within 30 days after an application of Curtail M
- Do not plant sugar beets (including beets grown for seed) in the same growing season following an application of Curtail M
- Do not plant alfalfa asparagus canola cole crops grain sorghum onions popcorn safflower sweet corn and strawberries for ~~12~~ 10.5 months after an application of Curtail M
- Do not plant dry beans soybeans and sunflowers for ~~12~~ 10.5 months after an application of Curtail M or 18 months if soils contain less than 2% organic matter and natural precipitation is less than 15 inches during the ~~12~~ 10.5 months following treatment For these areas see "Special Conditions" below

To avoid potential phytotoxicity all other crops including peas lentils potatoes and broadleaf crops grown for seed should not be planted for 18 months after treatment unless the risk of injury is acceptable

**Special Conditions** Residues of Curtail M in plant tissues which have not completely decayed may affect succeeding susceptible crops In areas defined previously as low in organic matter and precipitation sensitive crops such as dry beans soybeans and sunflowers may be injured when planted 12 months after treatment Unless the risk of injury is acceptable these crops should not be planted until 18 months after treatment The potential for injury may be reduced by burning removal or incorporation of treated crop residues with a minimum of 2 supplemental Fall irrigations

**[Editor's note Rotation crop restrictions for ID, NV, OR, UT & WA from EPA-accepted supplemental labeling dated 05/14/92 ]**

**(Idaho, Nevada, Oregon, Utah and Washington Only)**

- Do not plant wheat barley oats grasses or field corn within 30 days after an application of Curtail M
- Do not plant sugar beets (including beets grown for seed) in the same growing season following an application of Curtail M
- Do not plant alfalfa asparagus canola (rapeseed) *Brassica* species grown for seed cole crops dry beans, soybeans grain sorghum mint onions popcorn safflower sunflower sweet corn or strawberries during the first 12 months after an application of Curtail M
- **For areas receiving 18 inches or more of annual precipitation (not including irrigation)** Alfalfa asparagus dry beans canola (rapeseed) *Brassica* species grown for seed, grain sorghum mint onions popcorn sweet corn soybeans strawberries and sunflowers may be planted 12 months after an application of Curtail M Cole crops lentils peas potatoes (including potatoes grown for seed) safflower or broadleaf crops grown for seed (excluding *Brassica* species) may also be planted 12 months after treatment however unless risk of injury is acceptable these crops should not be planted until 18 months after treatment
- **For areas receiving less than 18 inches average annual precipitation (not including irrigation)** Alfalfa dry beans soybeans sunflowers lentils peas potatoes (including potatoes grown for seed) or broadleaf crops grown for seed (excluding *Brassica* species) should not be planted until 18 months after an application of Curtail M However crop injury and/or yield loss may occur up to 4 years after application

**Note** The above restrictions are based on average annual precipitation regardless of irrigation practices Use of Curtail M in accordance with the rotational crop restrictions stated if followed is not expected to result in crop injury however because Curtail M 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 burning or removal of plant residues supplemental fall irrigation and deep moldboard plowing prior to planting the sensitive crop

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Y**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. Fine droplets can present a drift hazard. A drift control or deposition agent such as 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** To minimize spray drift apply Curtail M in a total spray volume of 10 or more gallons per acre as a large-droplet low pressure spray. Refer to manufacturer's recommendations for additional information on gallons per acre spray pressure sprayer speed nozzle types and arrangements nozzle heights above the target canopy etc for respective application equipment. Spot treatments should only be applied with a calibrated boom to prevent misapplication. 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 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 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 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.

**Do not move treated soil** and avoid situations where treated soil particles may blow into areas where susceptible crops are grown. 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.

Straw from treated areas or manure from animals which have grazed treated areas cannot be used for composting or mulching on ground where susceptible crops may be grown the following season. To promote herbicide decomposition plant material should be evenly incorporated or burned.

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 when disposing of equipment washwaters. Apply this product only as specified on this label.

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

**Do not transfer livestock** from treated grazing areas onto sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated pasture. Otherwise urine may contain enough clopyralid to cause injury to sensitive broadleaf plants.



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### Weeds Controlled

Curtail M is recommended for selective post emergence control of the following broadleaf weeds in wheat and barley not underseeded with a legume and land in the Conservation Reserve Program (CRP)

- |                                  |   |
|----------------------------------|---|
| Alfalfa                          | Mustard wild                                |
| Artichoke Jerusalem              | Nightshade cutleaf                          |
| Buckwheat wild                   | Nightshade hairy                            |
| Buffalobur <sup>1</sup>          | Pennycress field<br>(fanweed)               |
| Burdock, common                  | Pigweed redroot                             |
| Chamomile false<br>(scentless)   | Pineappleweed                               |
| Chamomile mayweed<br>(dogfennel) | Plantain                                    |
| Clover sweet                     | Radish, wild                                |
| Clover, red                      | Ragweed common                              |
| Cocklebur common                 | Ragweed giant                               |
|                                  | Salsify meadow<br>(goatsbeard)              |
| Coffeeweed                       | Shepherdspurse                              |
| Cornflower (bachelor button)     | Sicklepod                                   |
| Dandelion                        | Smartweed<br>Pennsylvania                   |
| Dock curly                       | Sorrel red                                  |
| Flixweed <sup>1</sup>            | Sowthistle annual                           |
| Groundsel common                 | Sowthistle perennial <sup>1</sup>           |
| Hawksbeard narrowleaf            | Starthistle yellow                          |
| Horseweed                        | Sunflower common                            |
| Jimsonweed                       | Tansymustard pinnate <sup>1</sup>           |
| Knapweed diffuse                 | Thistle Canada                              |
| Knapweed Russian <sup>1</sup>    | Thistle, musk                               |
| Knapweed spotted                 | Thistle, Russian (1 3<br>leaf) <sup>1</sup> |
| Kochia (2 4 leaf) <sup>1</sup>   | Velvetleaf                                  |
| Ladysthumb                       | Vetch                                       |
| Lambsquarters common             | Volunteer beans                             |
| Lettuce, prickly                 | Volunteer lentils                           |
| Marshelder                       | Volunteer peas                              |
| Mustard tumble (Jim Hill)        |   |

<sup>1</sup>These weeds may only be suppressed. Suppression is a visual reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree of weed control and duration of effect will vary with weed size and density, spray rate and coverage, and growing conditions before, during and after the time of treatment. **For perennial weeds**, Curtail M will control the initial top growth and inhibit regrowth during the season of application (season long control). At higher rates shown on this label, Curtail M may cause a reduction in shoot regrowth in the season following application, however, plant response may be inconsistent due to inherent variability in shoot regrowth from perennial root systems.

**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. **Only weeds which are emerged at the time of application will be affected.** Wet foliage at the time of application may decrease control. Following application, Curtail M will be rainfast within 6-8 hours.

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**Rate** Generally lower labeled application rates will be satisfactory for young succulent growth of sensitive weed species. For less sensitive species, perennials and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds) the higher rates will be needed. Weeds in fallow or other areas where crop competition is not a factor will generally require higher rates to obtain control or suppression.

**Coverage** Adequate spray coverage and drift control are important. Obtaining a balance between spray coverage and drift control may sometimes be difficult but can be achieved provided the applicator understands the factors affecting coverage and drift. Factors affecting spray coverage include spray volume, crop canopy and weed density. As crop canopy and weed density increase, spray volume should be increased to obtain equivalent weed control. Refer to manufacturer's recommendations for information on the relationship between gallons per acre, spray pressure, sprayer speed, nozzle type and arrangement, nozzle height above the target canopy, droplet size and drift potential for respective application equipment. Do not apply less than 2 and not more than 40 gallons per acre total spray volume. For best results, apply 5 or more gallons per acre by air and 10 or more gallons per acre by ground. Reducing total spray volume may result in decreased coverage and weed control. Use enough total spray volume and a delivery system to provide thorough coverage and a uniform spray pattern. Do not apply where spray drift may be a problem due to proximity of susceptible crops or other desirable plants.

**Use of Surfactants** Addition of wetting and/or penetration agents is not usually necessary when using Curtail M; however, if a surfactant will be added to the spray solution, use a non-ionic surfactant approved for use in growing crops of at least 80% active ingredient and **do not exceed** 4 pints per 100 gallons of spray solution (0.5% v/v). Adding a surfactant to the spray mixture may increase effectiveness on weeds but may reduce selectivity to the crop, particularly under conditions which promote plant stress.

#### Use With Sprayable Liquid Fertilizer Solutions

Curtail M is compatible with most non-pressurized liquid fertilizer solutions; however, if these solutions are to be sprayed with Curtail M, a compatibility test (jar test) should be made prior to mixing. Jar tests are particularly important when a new batch of fertilizer or pesticide is used, when water source changes, or when tank mixture ingredients or concentrations are changed. A compatibility test is performed by pouring the spray components (in the desired order and proportions) into a clear glass jar before mixing in the spray tank. Use of a compatibility aid such as Unite or Compex may help obtain and maintain a uniform spray solution during mixing and application. Agitation in the spray tank must be vigorous to compare with jar test agitation. For best results, liquid fertilizer rates should not exceed 50% of the total spray volume. Premix Curtail M with water and add to the liquid fertilizer/water mixture while agitating contents of the spray tank. Apply the spray the same day it is prepared while maintaining continuous agitation.

**NOTE** Foliar applied liquid fertilizers can cause yellowing or leaf burn of crop foliage.

#### Wheat, Barley and Oats

**Timing** Apply Curtail M in the spring to actively growing wheat, barley or oats once 3 leaves have unfolded on the main stem up to the jointing stage (first node of main stem detectable). To control or suppress weeds listed above, make application after maximum emergence of the target weeds but before they exceed 3 inches in height or diameter (for rosettes). To obtain season long control of perennial weeds such as Canada thistle, apply after the majority of the weed's basal leaves have emerged from the soil but before bud stage. A later timing of application (when the grain is between the jointing and boot stages) may be used to treat later emerging weeds; however, do not apply unless the risk of injury is acceptable. Do not apply after the boot stage.

**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.

**Rate** Apply 1 3/4 to 2 1/3 pints of Curtail M per acre. The higher rate may be used when the condition of the weeds and/or crop at the time of treatment may prevent optimum control.

**Note** Higher rates of Curtail M or any application of Curtail M following a spring post emergence treatment with 2,4-D or MCPA may increase the risk of crop injury.

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**Tank Mixtures for Wheat, Barley and Oats** This product may be tank mixed with the following herbicides for control of additional weeds in wheat barley and oats 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	Formulation	Amount of Product Per Acre
chlorsulfuron	Glean	75% DF	1/6 to 1/4 wt oz
dicamba <sup>1 2</sup>	Banvel	4 lb/gal	1/8 to 1/4 pt
difenzoquat <sup>3</sup>	Avenge	2 lb/gal	2 1/2 to 4 pt
diuron	Direx 4L	4 lb/gal	1 to 1 1/2 pt
	Diuron 4L		
	Diuron 80 WDG	80% DF	1/2 to 1 lb
	Diuron DF	80% WP	
2 4 D <sup>2 3</sup>		4 lb/gal	Up to 1/2 pt
metribuzin <sup>3</sup>	Lexone DF	75% DF	2 1/2 to 4 wt oz
	Sencor DF		
metsulfuron methyl <sup>3</sup>	Ally	60% DF	1/10 wt oz
terbutryn <sup>3</sup>	Igran 80 WP	80% WP	6 to 10 wt oz
tribennuron methyl and thifensulfuron methyl <sup>3</sup>	Harmony Extra	75% DF	1/3 to 1/2 wt oz
tribuneron methyl <sup>3</sup>	Express	75% DF	1/6 to 1/4 wt oz

<sup>1</sup>Tank mixes of Banvel and Curtail M may be useful in broadening the annual weed control spectrum but may reduce control of perennials such as Canada thistle

<sup>2</sup>Note Do not tank mix Curtail M with 2 4 D or dicamba unless the risk of crop injury is acceptable

<sup>3</sup>Tank mix for application on wheat and barley only

#### Grasses Grown for Seed

**Timing** Apply only to established grasses before the boot stage Applications in the boot stage and beyond will result in increased injury Do not apply to bentgrass unless injury can be tolerated Potential for crop injury increases with higher rates Re treat as necessary but do not exceed 3 1/2 pints per acre of Curtail M per season For control of late emerging Canada thistle a pre harvest treatment may be made after grass seed is fully developed Treatment of Canada thistle in the bud stage and later may result in less consistent control Post harvest fall treatments may be made to actively growing Canada thistle after the majority of basal leaves have emerged

**Rate** Use 1 3/4 to 3 1/2 pints of Curtail M per acre for control of annual weeds and Canada Thistle The potential for crop injury exists due to the 2 4 D component of this product and must be balanced against the benefits of improved weed control

**Tank Mixtures For Grasses Grown For Seed** Curtail M at 1 3/4 pints per acre may be tank mixed with Banvel or Buctril to improve the control of certain weeds Refer to the Small Grains Table for use rates and tank mix guidelines

**Conservation Reserve Program (CRP) For Seeding To Permanent Grasses Only**

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**Do not use Curtail M if legumes or bentgrass are a desired cover during CRP**

**Timing** Curtail M can be applied when perennial grasses have become established (tillering with at least 1 5 inch long secondary roots and good vigor) For control of weeds such as musk thistle Canada thistle and knapweed (diffuse spotted and Russian) apply to actively growing weeds after the majority of the basal leaves have emerged but before bud stage Later applications may result in less consistent control

In fields with heavy weed density which are to be planted to CRP grasses a pre seeding application may be made In general cropland to be planted to CRP in the spring should be treated the previous fall and cropland to be planted to CRP in the fall should be treated the previous spring or summer A pre seeding treatment with Curtail M may cause visible injury and reduced seed production in some newly planted grass stands however grass stand establishment should be improved because of reduced weed competition Wait at least 30 days after a treatment with Curtail M before seeding grasses

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

**Rate** Apply 1 3/4 to 4 3/4 quarts of Curtail M per acre Do not exceed 1 3/4 quarts per acre for pre seeding treatment

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**Warranty Disclaimer**

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DowElanco 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 subject to the inherent risks set forth below DowElanco MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

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**Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product Plant injury lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperature soil conditions etc ) abnormal conditions (such as excessive rainfall drought tornadoes hurricanes) presence of other materials the manner of application or other factors all of which are beyond the control of DowElanco or the seller All such risks shall be assumed by buyer

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**Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at DowElanco's election one of the following

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

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing In no case shall DowElanco be liable for consequential or incidental damages or losses

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