

12/2/88

RESTRICTED USE PESTICIDE

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

HOELON^R 3EC HERBICIDE

For Control of Wild Oats and Other Annual Grasses in Wheat (Including Durum), Barley, Lentils, Dry Peas (Field Peas) Including Austrian Winter Peas, Flax, Soybeans, and Acreage Conservation Reserve (Set Aside)

Active Ingredient*

Diclofop-methyl:methyl 2-	
[4-(2,4-dichlorophenoxy)phenoxy]propanoate	35.49%
Inert Ingredients	64.51%

TOTAL 100.00%

*Equivalent to 3.0 pounds of active ingredient per gallon

APPROVED
 BEI
 8340-20

Keep Out of Reach of Children.

See Additional Precautionary Statements at End of Label.
EPA Reg. No. 8340-20-54382

Marketed By:
Hoechst-Roussel Agri-Vet Company

Agricultural Chemicals
Somerville, NJ 08876

HOECHST
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General Information

HOELON^R 3EC Herbicide is a highly effective herbicide for the control of a broad spectrum of annual grassy weeds in wheat (including durum), barley, lentils, dry field peas (including Austrian Winter Peas), flax, soybeans and acreage conservation reserve. HOELON^R 3EC Herbicide is a three pound active ingredient per gallon emulsifiable concentrate. Depending on the crop, and the grass species being controlled, HOELON 3EC Herbicide may be applied preplant incorporated (to wheat only), pre-emergence, or post-emergence. Read and carefully follow all label directions specified in this labeling.

Application Equipment Notes:

Ground:

Whether applying HOELON 3EC Herbicide preplant incorporated, pre-emergence, or post-emergence, thorough uniform coverage of the soil or target weeds is critical to achieving satisfactory results. The use of flat fan nozzles, spaced 10 or 20 inches apart across the boom is recommended for optimum coverage with ground equipment. Ground applications should be in at least 10 gallons of water carrier per acre, using a minimum of 40 PSI.

Aerial:

Aerial applications must be applied in at least 5 gallons of water carrier per acre. Use spray nozzle tips and sufficient pressure to provide a uniform pattern and a median droplet size of 200-350 microns. DO NOT wide swath the application; HOELON 3EC Herbicide is a contact material when used post-emergence, and highly immobile in the soil when applied preplant incorporated or pre-emergence. DO NOT make aerial applications when wind is above 5 mph or within 100 feet of a lake, stream, drainage basin, tidal marsh or estuary.

Only clean water, free of suspended matter or other contaminants, should be used when applying HOELON 3EC Herbicide.

General Notes:

1. HOELON 3EC Herbicide does not control broadleaf weeds or perennial grassy weeds.
2. DO NOT allow livestock to graze treated fields. DO NOT harvest forage, hay or straw from treated fields prior to grain harvest.
3. HOELON 3EC Herbicide can be tank mixed with the broadleaf herbicides listed on this label for broad spectrum weed control.
4. DO NOT apply phenoxy, phenoxy-type, or Barvel^R Herbicide within 5-day of a HOELON 3EC Herbicide application, or reduced grassy weed control will occur.
5. DO NOT apply HOELON 3EC Herbicide through any type of irrigation system.

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When controlling mixed infestations of grassy weeds, always use the rate that will control the least susceptible species, but DO NOT exceed the maximum rate for each registered crop use.

DIRECTIONS FOR USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF THE APPLICATION.

DIRECTIONS FOR THE PREPLANT INCORPORATED USE OF HOELON 3EC HERBICIDE ON WINTER WHEAT:

This product is registered for the preplant incorporated use to control Downy Brome, Ripgut Brome, Japanese Brome, Windgrass and Bulbous Bluegrass in the states of:

Colorado	Nebraska
Idaho	Oregon
Kansas	South Dakota
Montana	Washington

(The general information section must also be read for complete use instructions).

Application Rate Information:

The use rate of HOELON 3EC Herbicide to control Downy Brome (Bromus tectorum), Ripgut Brome (Bromus rigidus), Japanese Brome (Bromus japonicus), Windgrass (Apera spica-venti), and Bulbous Bluegrass (Poa bulbosa) will vary, depending on soil texture, soil organic matter content, soil moisture, and density of grass populations.

HOELON^R 3EC HERBICIDE APPLICATION RATES:

Soil Texture	HOELON Broadcast Rate in Pints/A	
	% Organic Matter 1/2 - 2%	% Organic Matter >2%
Coarse (Sandy Loam, Loamy Sand)	2.0 - 2-2/3	2-2/3 - 3-1/3
Medium (Loam, Silt Loam, Silt)	2.0 - 2-2/3	3-1/3

Use the highest recommended rate, according to the chart above, when heavy populations of annual grass (more than 50 plants per square foot) are anticipated (based on field history) and/or if soils are dry at the time of application.

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Incorporated Tank Mix:

HOELON 3EC Herbicide may be tank mixed with Glean^R Herbicide for control of annual broadleaf weeds. HOELON 3EC Herbicide should be used at the 2.0 to 2-2/3 pint/A rate, while Glean should be used at 1/3 to 1/2 oz./A. Refer to the EPA-approved Glean label for crop rotation restrictions and weed species controlled at the above-mentioned rates. Prior to the use of Glean, determine the soil pH by laboratory analysis using 1:1 soil:water suspension. Do not use Glean on soils with a pH greater than 7.9.

Incorporation Directions:

HOELON 3EC Herbicide is highly immobile on the soil and must be mechanically incorporated into the annual grass germination zone to help insure satisfactory control. Incorporate HOELON 3EC Herbicide into the soil to a maximum depth of 2 inches (do not set incorporation equipment to cut more than 4 inches deep). Incorporate one time within 48 hours after application, followed by a second incorporation, in a different direction from the first, prior to seeding.

Incorporation Equipment:

If the seedbed is free of trash and clods at the time of application, the use of a spiketooth, springtooth or flextine harrow, operated at 3-6 mph, is recommended. If the seedbed is trashy at the time of application, use an implement which is capable of incorporating the trash in the top two inches of the soil. A skew treader operated at 4-6 mph is recommended. Chisel Plows -- may be used for first pass incorporation only. Operate at 3-4 inch depth at 4-6 mph. A chisel plow is defined as having 3 rows of up to 18 inch sweeps on no greater than 12 inch centers. Sweeps should be staggered so that no soil is left unturned. Field cultivators should be set to cut 3-4 inches deep and operated at a speed of at least 5 mph. A field cultivator used to incorporate HOELON 3EC Herbicide should have 3-4 rows of sweeps with "C" or "S" shaped shanks, spaced 7 inches or less and staggered so that no soil is left unturned. Conventional, deep furrow, or semi-deep furrow drills may be used for seeding.

Preplant Incorporated Special Notes:

1. DO NOT apply HOELON 3EC Herbicide preplant incorporated to barley, as barley damage will occur.
2. DO NOT tank mix HOELON 3EC Herbicide with any other herbicides for preplant incorporation unless specifically recommended in this label.
3. HOELON 3EC Herbicide may be tank mixed with liquid fertilizers. Follow label recommendations concerning rates and incorporation. Before mixing HOELON 3EC Herbicide with fertilizer, perform a compatibility test in a quart jar. If the materials do not readily mix, do not tank mix HOELON 3EC Herbicide with the fertilizer.

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DIRECTIONS FOR THE PRE-EMERGENCE USE OF HOELON^R 3EC HERBICIDE ON WINTER WHEAT:

This product is registered for pre-emergence use on winter wheat to control annual ryegrass in the states of:

Alabama	Maryland	Tennessee
Arkansas	Mississippi	Texas
Delaware	North Carolina	Virginia
Florida	Oklahoma	Washington
Georgia	Oregon	West Virginia
Louisiana	South Carolina	

(The general information section must also be read for complete use instructions.)

HOELON^R 3EC HERBICIDE APPLICATION RATES:

Soil texture	HOELON Broadcast Rate in Pints/A	
	% Organic Matter 1/2 - 2%	% Organic Matter >2%
Coarse (Sandy Loam, Loamy Sand)	2.0	2-2/3
Fine (Loam, Silty Loam, Silt)	2-2/3	2-2/3

Use the 2-2/3 pint/acre rate of HOELON 3EC Herbicide in fields that have a history of heavy annual ryegrass pressure. If rainfall does not occur within seven (7) days after application, reduced control may occur.

Pre-Emergence Special Instructions:

1. HOELON 3EC Herbicide may be tank mixed with Glean for control of annual broadleaf weeds. HOELON 3EC Herbicide should be used at the 2.0 to 2-2/3 pint per acre rate (according to soil texture and severity of annual ryegrass infestation) while Glean should be used at 1/4 to 1/2 oz. per acre. Refer to the EPA-approved Glean label for crop rotation restrictions and weed species controlled at the above-mentioned rates. Prior to the use of Glean, determine the soil pH by laboratory analysis, using a 1:1 soil:water suspension. Do not use Glean on soils with a pH greater than 7.5.
2. DO NOT apply HOELON 3EC Herbicide pre-emergence to barley as barley damage will occur.
3. HOELON 3EC Herbicide may be mixed with liquid fertilizers when making pre-emergence applications. Follow label recommendations concerning HOELON 3EC Herbicide rates. Before tank mixing HOELON 3EC Herbicide with fertilizer, perform a compatibility test in a quart jar. If the materials do not readily mix, do not tank mix HOELON 3EC Herbicide with the fertilizer.
4. HOELON 3EC Herbicide applied pre-emergence surface will not provide adequate bromo control or control wild oats.

DIRECTIONS FOR THE POST-EMERGENCE USE OF HOELON^R 3EC HERBICIDE ON WINTER WHEAT, SPRING WHEAT, AND DURUM:

This product is registered for post-emergence use on wheat and durum in the following states:

Alabama	Florida	Minnesota	N. Carolina	Tennessee
Arizona	Georgia	Mississippi	N. Dakota	Texas
Arkansas	Idaho	Montana	Oklahoma	Utah
California	Kansas	Nebraska	Oregon	Virginia
Colorado	Louisiana	Nevada	S. Carolina	Washington
Delaware	Maryland	New Mexico	S. Dakota	W. Virginia
				Wyoming

(The general information section must also be read for complete use instructions.)
 Apply HOELON[®] 38C Herbicide as a Broadcast Postemergence Spray at the Rates Listed Below.

Amount of HOELON[®] 38C Herbicide Per Acre (Pints)¹ Relative
 To Growth Stage of Annual Grassy Weeds

Susceptible Annual Grassy Weeds	1-3 Leaf	3-4 Leaf	4-5 Leaf	5 Leaf - 2 Tillers
Annual Ryegrass (Italian) ² (<i>Lolium multiflorum</i>)	1-1/3 pints	1-1/3 pints	2.0 pints	2-2/3 pints
Broadleaf Signalgrass (Suppression) (<i>Brachiaria platyphylla</i>)	2-2/3 to 3-1/3 pints			DO NOT APPLY Reduced Grassy Weed Control Will Occur
Crabgrass (<i>Digitaria sanguinalis</i>)	2-2/3 to 3-1/3 pints			
Persian Darnel (<i>Lolium persicum</i>)	2-2/3 to 3-1/3 pints			
Fall Panicum (<i>Panicum dichotomiflorum</i>)				
Barnyardgrass (watergrass) (<i>Echinochloa crusgalli</i>)				
Giant Foxtail (<i>Setaria faberii</i>)				
Green Foxtail (pigeongrass) (<i>Setaria viridis</i>)		2-2/3 to 3-1/3 pints		
Yellow Foxtail (pigeongrass) ³ (<i>Setaria lutescens</i>)	2.0 to 2-2/3 pints	2-2/3 to 3-1/3 pints		
Wild Oat (<i>Avena fatua</i>)				
Itchgrass (Rough) ⁴ (<i>Rottboellia exaltata</i>)				
Volunteer Corn ⁴ (<i>Zea mays</i>)				
Witchgrass (Suppression) (<i>Panicum capillare</i>)				
Smallseed Canarygrass (Suppression) ⁵ (<i>Phalaris minor</i>)				
Hooded Canarygrass ⁵ (<i>Phalaris paradoxa</i>)				

¹ When controlling mixed populations of grassy weeds, always use the rate that will control the least susceptible species.

² Annual ryegrass may also be controlled pre-emergence in winter wheat. See appropriate recommendation section in this labeling.

³ For best control of crabgrass and yellow foxtail, application should be made before the second leaf fully emerges.

⁴ See specific control recommendations for Itchgrass and Volunteer Corn in the soybean section of this labeling.

⁵ See specific control recommendations for Smallseed and Hooded Canarygrass in this section of the labeling.

Post-Emergence Special Instructions:

When using HOELON^R 3EC Herbicide post-emergence in wheat to control annual grassy weed(s), and the weeds do not include Annual Ryegrass, Broadleaf Signalgrass, Crabgrass, Persian Darnel or Yellow Foxtail, apply the 2.0 pint per acre rate when the annual grassy weeds are in the 1-3 leaf stage of growth, and growing conditions are optimal. In the northcentral region of the United States (east of the Rocky Mountains) in spring wheat and durum under normal growing conditions, the 1-3 leaf stage of wild oat plants generally occurs 16-26 days-after-planting. In the northwest region of the United States in spring wheat and durum (west of the Rocky Mountains, excluding California) under normal growing conditions the 1-3 leaf stage of wild oat plants generally occurs 18-28 days-after-planting. In either region, under normal growing conditions, wild oat plants will add an additional leaf every four days. In either region, begin checking your fields 10-12 days-after-planting to assure correct application timing. Higher use rates of HOELON 3EC Herbicide should be used when the majority of annual grassy weeds are not clearly in the specified stage of growth, or if growth is retarded due to adverse growing conditions.

Crop Oil Concentrate:

In spring wheat (including durum) and winter wheat at the lower labeled use rates (1-1/3 to 2-2/3 pints per acre) it may be helpful to use 1 pint to 1 quart of crop oil concentrate per acre approved for use on growing crops. Use a crop oil concentrate containing a blend of 80 percent (minimum) petroleum or vegetable base oil and the remaining composed of a tolerance-exempt surfactant. Some slight wheat yellowing may be noted when crop oil concentrates are added to HOELON 3EC Herbicide.

For more detailed information on determining the low use rates in combination with crop oil concentrates, refer to the Hoechst-Roussel Agri-Vet Company Technical Bulletin No. 110, "Low Rate Technology." Contact your local dealer or Hoechst-Roussel Agri-Vet Company representative for this Technical Bulletin.

Broadleaf Tank Mixes - For Post Emergence Applications in Wheat

All broadleaf herbicides should be used in accordance with the label limitations and precautions for each product. No label dosage rates should be exceeded. For best results, tank mixes should be used when growing conditions (air temperature and soil moisture) are optimum, and grasses are in the 1-3 leaf stage of growth with light to moderate infestations.

Buctril^R Herbicide

HOELON 3EC Herbicide may be tank mixed with Buctril Herbicide for broadleaf weed control in spring wheat (including durum) and winter wheat. HOELON 3EC Herbicide should be used at a rate of 2.0 to 3-1/3 pints per acre (depending on size of annual grasses) as specified on this label. Buctril should be mixed at a rate of 1.5 to 2.0 pints per acre, according to the directions specified on the respective label.

Buctril^R Herbicide Plus MCPA (ester) 4EC

Low rates of MCPA (ester) 4EC may be added to a tank mix of HOELON 3EC Herbicide plus Buctril Herbicide. HOELON 3EC Herbicide should be used at a rate of 2-2/3 to 3-1/3 pints per acre. When using Buctril Herbicide, 1.0 pint per acre should be tank mixed with MCPA (ester) 4EC at 1-1/2 ounces per acre. MCPA (ester) 4EC rates in excess of 1-1/2 ounces per acre may reduce the grassy weed control provided by HOELON 3EC Herbicide. No other formulations of MCPA should be substituted for the 4.0 pound active ingredient ester formulation.

Glean^R Herbicide - Winter Wheat Only

HOELON^R 3EC Herbicide should be used at a rate of 2-2/3 to 3-1/3 pints per acre. The rate of Glean should not exceed 1/4 oz. per acre. Refer to the Glean label for crop rotation restrictions and weed species controlled at the 1/4 oz. per acre rate. Prior to the use of Glean, determine the soil pH by laboratory analysis, using a 1:1 soil:water suspension. Do not use Glean on soils with a pH greater than 7.5.

HOELON^R 3EC Herbicide + Buctril^R + Glean^R

A three-way tank mix of HOELON 3EC Herbicide + Buctril + Glean can be applied for wild oat control and enhanced broadleaf weed control in winter wheat. The use rate of HOELON 3EC Herbicide ranges from 2.0 to 3-1/3 pints per acre. At least 2-2/3 pints per acre are required when wild oats are larger than the three-leaf stage, infestations are heavy, or soil moisture is lacking. The maximum use rate in barley is 2-2/3 pints per acre. Buctril should be used at 1-1/2 to 2 pints per acre, and the maximum use rate of Glean is 1/6 oz. per acre.

Reduced control of foxtail is possible when Glean is added to a tank mix of HOELON 3EC Herbicide + Buctril. If foxtail is the major grassy weed in the field, DO NOT use this three-way combination.

HOELON^R 3EC Herbicide + Buctril^R + Harmony^R

A three-way tank mix of HOELON 3EC Herbicide + Buctril + Harmony can be applied for wild oat and enhanced broadleaf weed control in spring wheat, durum, and winter wheat. The use rate of HOELON 3EC Herbicide ranges from 2.0 to 3-1/3 pints per acre. At least 2-2/3 pints per acre are required when wild oats are larger than the three-leaf stage, infestations are heavy, or soil moisture is lacking. Buctril should be used at 1-1/2 to 2 pints per acre, and the use rate of Harmony is 1/6-1/4 oz. per acre.

Reduced control of foxtail is possible when Harmony is added to a tank mix of HOELON 3EC Herbicide + Buctril. If foxtail is the major grassy weed in the field, DO NOT use this three-way combination.

HOELON^R 3EC Herbicide + Harmony^R Tank Mixes

A tank of HOELON 3EC Herbicide + Harmony can be applied for wild oat and broadleaf weed control in spring wheat, durum, and winter wheat. The use rate of Hoelon should be 2-2/3 to 3-1/3 pints per acre in wheat and durum. The maximum use rate of Harmony when tank mixed with Hoelon in spring cereals is 1/2 oz. product per acre.

Wild oat control may be reduced under conditions of soil moisture stress or extremely heavy wild oat populations.

Reduced control of foxtail is likely when tank mixing with Harmony. When Foxtail is the major grassy weed in the field, DO NOT tank mix HOELON 3EC Herbicide + Harmony. Use sequential treatments.

In wheat and durum, crop oil concentrate can be added to a HOELON 3EC Herbicide + Harmony tank mix.

Fertilizer Tank Mixes Post-Emergence in Wheat

HOELON 3EC Herbicide applied post-emergence in wheat may only be tank mixed with liquid nitrogen fertilizer (28-32%) if the timing for use is compatible. The concentration of liquid nitrogen fertilizer to water should not exceed 50% of the total carrier in the spray tank. When mixing with liquid nitrogen fertilizers as a partial carrier, crop burn may occur. This condition is intensified under higher temperatures (greater than 75°F daytime) and/or low soil moisture. This mixture should not be used when these environmental conditions are present. Thorough spray coverage is essential when using HOELON 3EC Herbicide and flat fan type nozzles are recommended for ground applications. If flood jet nozzles are used, they must be spaced no greater than 40 inches apart, using a maximum TK-15, with a minimum of 40 PSI and ground speeds at application not to exceed 10 mph. DO NOT use raindrop type nozzles.

DO NOT use less than 2.0 pints per acre HOELON 3EC Herbicide when tank mixing with liquid nitrogen.

In all of the above-labeled tank mix options, ground applications should be made with a minimum of 10 gallons of water per acre, and air applications with a minimum of 5 gallons of water per acre. If other broadleaf herbicides are applied within 5 days, reduced grassy weed control may occur.

DIRECTIONS FOR THE POST-EMERGENCE CONTROL OF SMALLSEED AND HOODED CANARYGRASS IN WHEAT:

Apply HOELON^R 3EC Herbicide as a Broadcast Postemergence Spray at the Rates Listed Below.

Amount of HOELON^R 3EC Herbicide Per Acre (Pints)
Relative To Growth Stage of Annual Grassy Weeds

Susceptible Annual Grassy Weeds	Stage of Growth	Rate-Pints/Acre
Hooded Canarygrass ¹ (<i>Phalaris paradoxa</i>)	1-3 leaves	2.0-2 2/3 pints
Smallseed Canarygrass (Suppression) ² (<i>Phalaris minor</i>)	1-2 leaves	2 2/3-3 1/3 pints

¹DO NOT add crop oil concentrate.

²Under dry conditions add 1 pint to 1 quart per acre of crop oil concentrate. Crop oil concentrate can only be tank mixed with HOELON 3EC Herbicide in Arizona and the Imperial Valley of California.

Weather Considerations In Wheat For California Only:

In fall seeded winter or spring wheat varieties or durum varieties, if one or a combination of the following environmental conditions are present or prolonged, preceding a HOELON 3EC Herbicide application, crop injury may occur.

- | | |
|--|--|
| <p>(1) COLD TEMPERATURES - If daily minimum temperatures reach 40°F or less for three (3) consecutive days before application.</p> | <p>(2) MOISTURE CONDITIONS
a) Water-logged or poorly drained fields.
b) Moisture content is at field capacity.</p> |
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If the above adverse environmental conditions are present, the wheat is already under severe environmental stress; do not compound the stress... with chemical applications. With respect to the foregoing statement: buyer specifically assumes all risks should cold and/or wet weather... conditions occur prior to or during the HOELON 3EC Herbicide application.

DIRECTIONS FOR THE POST-EMERGENCE USE OF HOELON 3EC HERBICIDES ON BARLEY.

This product is registered for post-emergence use on barley in the following states:

Arizona	Idaho	Montana	N. Carolina	S. Carolina	Virginia
California	Kansas	Nebraska	N. Dakota	S. Dakota	Washington
Colorado	Maryland	Nevada	Oklahoma	Texas	W. Virginia
Delaware	Minnesota	New Mexico	Oregon	Utah	Wyoming

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(The general information section must also be read for complete use instructions.)

Apply HOELON^R 3EC Herbicide as a Broadcast Postemergence Spray at the Rates Listed Below.

Amount of HOELON^R 3EC Herbicide Per Acre (Pints)¹
Relative To Growth Stage of Annual Grassy Weeds

Susceptible Annual Grassy Weeds	1-3 Leaf	4 Leaf	5 Leaf	5 Leaf - 2 Tillers
Annual Ryegrass (Italian) ² (<u>Lolium multiflorum</u>)	1-1/3 pts.	1-1/3 pts.	2.0 pts.	2-2/3 pts.
Broadleaf Signalgrass (Suppression) (<u>Brachiaria platyphylla</u>)	2-2/3 pts.	DO NOT APPLY REDUCED GRASSY WEED CONTROL WILL OCCUR		
Crabgrass (<u>Digitaria sanguinalis</u>)	2-2/3 pts.			
Persian Darnel (<u>Lolium persicum</u>)	2-2/3 pts.			
Fall Panicum) (<u>Panicum dichotomiflorum</u>))				
Barnyardgrass (watergrass)) (<u>Echinochloa crusgalli</u>))				
Giant Foxtail) (<u>Setaria faberii</u>))				
Green Foxtail (pigeongrass)) (<u>Setaria viridis</u>))	2.0 to			
Yellow Foxtail (pigeongrass) ³) (<u>Setaria lutescens</u>))	2-2/3 pts.			
Wild Oat) (<u>Avena fatua</u>))				
Itchgrass (Raoulgrass) ⁴) (<u>Rottboellia exaltata</u>))				
Volunteer Corn) (<u>Zea mays</u>))				
Witchgrass (Suppression)) (<u>Panicum capillare</u>))				
Hooded Canarygrass) (<u>Phalaris paradoxa</u>))				

¹ When controlling mixed populations of grassy weeds, always use the rate that will control the least susceptible species.

² Annual ryegrass may also be controlled pre-emergence in winter wheat. See appropriate recommendation section in this labeling.

³ For best control of crabgrass and yellow foxtail, application should be made before the second leaf fully emerges.

⁴ See specific control recommendations for Itchgrass and Volunteer Corn in the soybean section of this labeling.

HOELON^R 3EC HERBICIDE RECOMMENDATIONS FOR SPRING BARLEY IN THE NORTH CENTRAL, SOUTHWEST AND WESTERN REGIONS OF THE UNITED STATES.

When using HOELON 3EC Herbicide to control annual grassy weeds and the weeds do not include annual ryegrass, broadleaf signalgrass, crabgrass or Persian darnel, apply the 2.0 pint per acre rate when the annual grassy weeds are in the 1-3 leaf stage of growth and growing conditions are optimal. The higher rate of 2-2/3 pints per acre should be used (see chart) when the majority of grassy weeds is not clearly in the specified stage of growth or if growth is retarded due to a lack of moisture. Thorough spray coverage is essential.

Weather Considerations

In spring seeded barley, if one or a combination of the following environmental conditions are present or prolonged, preceding a HOELON 3EC Herbicide application, crop injury may occur.

- | | |
|---|---|
| (1) COLD TEMPERATURES - If daily minimum temperatures reach 40°F or less for three (3) consecutive days before application. | (2) MOISTURE CONDITIONS
a) Water-logged or poorly drained fields.
b) Moisture content is at field capacity. |
|---|---|

If the above adverse environmental conditions are present, barley is already under severe environmental stress; do not compound the stress with any chemical applications. With respect to the foregoing statement: buyer specifically assumes all risks should cold and/or wet weather conditions occur prior to or during the HOELON 3EC Herbicide application.

For more detailed information on the use of HOELON 3EC Herbicide in spring planted barley, refer to the Hoechst-Roussel Agri-Vet Company Technical Release - HOELON 3EC Herbicide Recommendations for Barley, available through your local chemical supplier or your Hoechst-Roussel Agri-Vet Company representative.

Broadleaf Tank Mixes for Post-Emergence Applications in Spring Barley

All broadleaf herbicides should be used in accordance with the label limitations and precautions for each product. No label dosage rates should be exceeded. For best results, tank mixes should be used when growing conditions (air temperature and soil moisture are optimum) and grasses are in the 1-3 leaf stage of growth with light to moderate infestations (less than 25 wild oat plants per square foot).

Buctril^R Herbicide

HOELON 3EC Herbicide may be tank mixed with Buctril Herbicide for broadleaf weed control in spring barley. HOELON 3EC Herbicide should be used at a rate of 2.0 to 2-2/3 pints per acre (depending on the size of the annual grasses, environmental conditions, and density of grass populations) as specified on this label. Buctril should be mixed at a rate of 1.5 to 2.0 pints per acre, according to the directions specified on the respective label.

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Buctril^R Herbicide plus MCPA (ester) 4EC

Low rates of MCPA (ester) 4EC may be added to a tank mix of HOELON 3EC Herbicide plus Buctril Herbicide. HOELON 3EC Herbicide should be used at a rate of 2-2/3 pints per acre. When using Buctril Herbicide, 1.0 pint per acre should be tank mixed with MCPA (ester) 4 EC at 1-1/2 oz. per acre. MCPA (ester) 4EC rates in excess of 1-1/2 oz. per acre may reduce the grassy weed control provided by HOELON 3EC Herbicide. No other formulations of MCPA should be substituted for the 4.0 pound active ingredient ester formulation.

HOELON^R 3EC Herbicide + Buctril^R + Harmony^R

A three-way tank mix of HOELON 3EC Herbicide + Buctril + Harmony can be applied for wild oat and enhanced broadleaf weed control in barley. The maximum Hoelon use rate in barley is 2-2/3 pints per acre. Buctril should be used at 1-1/2 to 2 pints per acre, and the use rate of Harmony is 1/6-1/4 oz. per acre.

Reduced control of foxtail is possible when Harmony is added to a tank mix of HOELON 3EC Herbicide + Buctril. If foxtail is the major grassy weed in the field, DO NOT use this three-way combination.

HOELON^R 3EC Herbicide + Harmony^R Tank Mixes

A tank mix of HOELON 3EC Herbicide + Harmony can be applied for wild oat and broadleaf weed control in barley. In barley, a maximum of 2-2/3 pints of HOELON 3EC Herbicide per acre is recommended. The maximum use rate of Harmony when tank mixed with HOELON 3EC Herbicide in spring cereals is 1/2 oz. product per acre.

Wild oat control may be reduced under conditions of soil moisture stress or extremely heavy wild oat populations.

Reduced control of foxtail is likely when tank mixing with Harmony. When foxtail is the major grassy weed in the field, DO NOT tank mix Hoelon + Harmony. Use sequential treatments.

Special Notes for Spring Barley:

- 1) DO NOT tank mix HOELON 3EC Herbicide with Glean^R.
- 2) DO NOT tank mix HOELON 3EC Herbicide with crop oil concentrate.
- 3) DO NOT tank mix HOELON 3EC Herbicide with liquid fertilizers.
- 4) HOELON 3EC Herbicide is registered for use on all varieties of spring seeded barley.
- 5) HOELON 3EC Herbicide should be applied prior to barley tiller initiation.
- 6) DO NOT apply pre-emergence to barley.

**HOELON^R 3EC HERBICIDE RECOMMENDATIONS FOR WINTER BARLEY IN THE
MIDATLANTIC AND SOUTHEAST REGIONS OF THE UNITED STATES.**

When using HOELON 3EC Herbicide to control annual ryegrass in winter seeded barley, use the 1-1/3 pints per acre rate when the ryegrass is in the 1 to 4 leaf stage of growth. The low rate of 1-1/3 pints per acre should only be used under optimum growing conditions. If the crop and annual ryegrass is under drought stress, increase the rate of HOELON 3EC Herbicide from 2.0 - 2-2/3 pints per acre, depending on the severity of infestation and size of annual ryegrass. For mixed grass infestations, refer to the rate and timing chart for grasses controlled in barley.

Broadleaf Tank Mixes for Post-Emergence Applications in Winter Barley

See broadleaf tank mixes approved for use on spring barley.

Fertilizer Tank Mixes Post-Emergence in Winter Barley

HOELON 3EC Herbicide may be tank mixed with liquid nitrogen fertilizer (e.g. 28% or 32%) if the timing for use is compatible. The concentration of liquid nitrogen fertilizer to water should not exceed 50% of the total carrier in the spray tank. When mixing with liquid nitrogen fertilizers as a partial carrier, crop burn may occur. This condition is intensified under high temperatures (greater than 75°F daytime) and/or low soil moisture. This mixture should not be used when these environmental conditions are present. Thorough spray coverage is essential when using HOELON 3EC Herbicide and flat fan type nozzles are recommended for ground applications. If flood jet nozzles are used, they must be spaced no greater than 40 inches apart, using a maximum TK-15 with a minimum of 40 PSI and ground speeds at application not to exceed 10 mph. DO NOT use raindrop type nozzles. Use a minimum of 2.0 pints per acre of HOELON 3EC Herbicide when tank mixing with liquid nitrogen fertilizer.

Special Notes for Winter Barley

- 1) DO NOT tank mix HOELON 3EC Herbicide with Glean^R.
- 2) DO NOT tank mix HOELON 3EC Herbicide with crop oil concentrate.
- 3) HOELON 3EC Herbicide is registered for use on the following winter barley varieties - Milton, Boone, Henry and Sussex.
- 4) Apply HOELON 3EC Herbicide after tiller initiation, but prior to jointing of the winter barley.
- 5) DO NOT apply preemergence to barley.

DIRECTIONS FOR THE POST-EMERGENCE USE OF HOELON^R 3EC HERBICIDE ON DRY FIELD PEAS (INCLUDING AUSTRIAN WINTER PEAS) AND LENTILS.

This product is registered for post-emergence use on dry field peas in the following states: Idaho, Oregon, and Washington.

This product is registered for post-emergence use on lentils in the following states: Idaho and Washington.

(The general information section must also be read for complete use instructions.)

Apply HOELON^R 3EC Herbicide as a Broadcast Post-emergence Spray at the Rates Listed Below.

Amount of HOELON^R 3EC Herbicide Per Acre
(Pints)¹ Relative To Growth Stage of
Annual Grassy Weeds

Susceptible Annual Grassy Weeds	1-2 Leaf	3-4 Leaf	4-5 Leaf	5 Leaf - 2 Tillers
Annual Ryegrass (Italian) ² (<i>Lolium multiflorum</i>)	1-1/3 pts.	1-1/3 pts.	2.0 pts.	2-2/3 pts.
Barnyardgrass (Watergrass) (<i>Echinochloa crusgalli</i>)	2.0 pts.	2-2/3 pts.		
Green Foxtail (<i>Setaria viridis</i>)	2.0 pts.	2-2/3 pts.		
Wild Oat (<i>Avena fatua</i>)	2.0 pts.	2-2/3 pts.		

DO NOT APPLY
REDUCED GRASSY
WEED CONTROL
WILL OCCUR

¹When controlling mixed populations of annual grassy weeds, always use the rate which will control the least susceptible species.

²Annual ryegrass may also be controlled pre-emergence in winter wheat. See appropriate recommendation section in this labeling.

When using HOELON 3EC Herbicide to control annual grassy weeds, and the weeds do not include annual ryegrass, HOELON 3EC Herbicide should be applied at a rate of 2.0 to 2-2/3 pints per acre. Apply the 2.0 pint per acre rate only when the annual grassy weeds are in the 1-2 leaf stage of growth and growing conditions are normal. The higher rate should be used when the development of the annual grassy weeds are not clearly in the specified stages of growth, or if growth is retarded due to adverse growing conditions.

Special Notes For Dry Field Peas and Lentils:

- 1) DO NOT apply more than one application of HOELON 3EC Herbicide in a growing season.
- 2) DO NOT allow livestock to graze treated fields. DO NOT harvest pea vine forage or hay from treated fields for livestock feed.
- 3) DO NOT tank mix with any broadleaf herbicides for use on dry field peas and lentils.
- 4) DO NOT tank mix with liquid fertilizers.
- 5) DO NOT apply by air on dry field peas and lentils.
- 6) HOELON 3EC Herbicide may be tank mixed with crop oil concentrate at 1-2 pints per acre for use on dry field peas.
- 7) DO NOT tank mix HOELON 3EC Herbicide with crop oil concentrate for use on lentils.
- 8) Apply prior to the bloom stage of dry field peas and lentils.

DIRECTIONS FOR THE POST-EMERGENCE USE OF HOELON^R 3EC HERBICIDE ON FLAX

This product is registered for post-emergence use on flax in the following states: Minnesota, Montana, North Dakota and South Dakota.

(The general information section must also be read for complete use instructions.)

Apply HOELON^R 3EC Herbicide as a Broadcast Post-Emergence Spray at the Rates Listed Below:

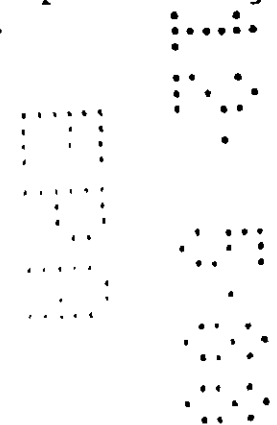
Amount of HOELON^R 3EC Herbicide Per Acre (Pints)¹ Relative to Growth Stage of Annual Grassy Weeds

Susceptible Annual Grassy Weeds	1 - 3 Leaf	3 - 4 Leaf
Wild Oat (<i>Avena fatua</i>)	2.0 pints	2-2/3 pints
Green Foxtail (<i>Setaria viridis</i>)	2.0 pints	2-2/3 pints
Yellow Foxtail ² (<i>Setaria lutescens</i>)	2.0 pints	2-2/3 pints
Barnyardgrass (watergrass) (<i>Echinochloa crusgalli</i>)	2.0 pints	2-2/3 pints
Persian Darnel (<i>Lolium persicum</i>)	2-2/3 pints	DO NOT APPLY

¹When controlling mixed populations of annual grassy weeds, always use the rate which will control the least susceptible species.

²For best control of yellow foxtail, application should be made before the second leaf fully emerges.

When using HOELON 3EC Herbicide in flax to control annual grassy weeds (and the weeds do not include Persian darnel) apply the 2.0 pint per acre rate when the annual grassy weeds are in the 1-3 leaf stage and growing conditions are optimum. The 2-2/3 pint per acre rate should be used if the grassy weeds are not clearly in the specified stage of growth, or if growth is retarded due to adverse growing conditions.



Special Notes for Flax

- 1) DO NOT apply more than one application in a growing season.
- 2) DO NOT tank mix HOELON 3EC Herbicide with liquid nitrogen fertilizer.
- 3) DO NOT tank mix HOELON 3EC herbicide with crop oil concentrate.
- 4) DO NOT allow livestock to graze treated fields. DO NOT feed flax straw treated with HOELON 3EC Herbicide.
- 5) DO NOT apply HOELON 3EC Herbicide within 70 days of flax harvest.

DIRECTIONS FOR THE USE OF HOELON^R 3EC HERBICIDE ON SOYBEANS AND ACREAGE CONSERVATION RESERVE

This product is registered for the post-emergence use on soybeans and acreage conservation reserve in the following states:

Delaware	Kansas	Michigan	New Jersey	S. Dakota
Illinois	Kentucky	Minnesota	N. Dakota	Virginia
Indiana	Louisiana	Missouri	Ohio	Wisconsin
Iowa	Maryland	Nebraska	Pennsylvania	

(The general information section must also be read for complete use instructions.)

Apply HOELON^R 3EC Herbicide as a Broadcast Post-emergence Spray at the Rates Listed Below.

Amount of HOELON^R 3EC Herbicide Per Acre (Pints)¹
Relative To Growth Stage of Annual Grassy Weeds

Susceptible Annual Grassy Weeds	1-3 Leaf	3-4 Leaf	4-5 Leaf	5 Leaf - 2 Tillers	
Annual Ryegrass (Italian) ² (<u>Lolium multiflorum</u>)	1-1/3 pts.	1-1/3 pts.	2.0 pts.	2-2/3 pts.	
Broadleaf Signalgrass (Suppression) (<u>Brachiaria platyphylla</u>)	2-2/3 to 3-1/3 pts.	<div style="border: 1px solid black; padding: 10px;"> <p>DO NOT APPLY</p> <p>REDUCED GRASSY WEED CONTROL WILL OCCUR</p> </div>			
Crabgrass ³ (<u>Digitaria sanguinalis</u>)	2-2/3 to 3-1/3 pts.				
Witchgrass (Suppression) (<u>Panicum capillare</u>)	2-2/3 to 3-1/3 pts.				
Fall Panicum (<u>Panicum dichotomiflorum</u>))				
Barnyardgrass (watergrass) (<u>Echinochloa crusgalli</u>))				
Giant Foxtail (<u>Setaria faberii</u>))				
Green Foxtail (pigeongrass) (<u>Setaria viridis</u>))2.0 to)2-2/3 pts.				2-2/3 to 3-1/3 pts.
Yellow Foxtail (pigeongrass) ³ (<u>Setaria lutescens</u>))				
Wild Oat (<u>Avena fatua</u>))				
Itchgrass (Raoulgrass) ⁴ (<u>Rottboellia exaltata</u>)	2.0 pts. (1-24")				2-2/3 pts. (24-36")
Volunteer Corn ⁴ (<u>Zea mays</u>)	2.0 to 2-2/3 pts.	2-2/3 to 3-1/3 pts.			

¹When controlling mixed populations of grassy weeds, always use the rate that will control the least susceptible species.

²Annual ryegrass may also be controlled pre-emergence in winter wheat. See appropriate recommendation section in this labeling.

³For best control of crabgrass and yellow foxtail, application should be made before the second leaf fully emerges.

⁴See specific control recommendations for Itchgrass and Volunteer Corn in the soybean section of this labeling.

Apply HOELON^R 3EC Herbicide at the higher labeled rates when the majority of annual grassy weeds is not clearly in the specified stages of growth, or if growth is retarded due to the adverse growing conditions.

Crop Oil Concentrate

Under adverse growing conditions (drought), the addition of 1 to 2 pints of crop oil concentrate may result in improved weed control. Use a crop oil concentrate containing a blend of 80% (minimum) petroleum or vegetable base oil, with the remaining composed of a tolerance-exempt surfactant.

Banded applications may be used, using the following formula to calculate application rates:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Rate Per Acre}}{\text{Broadcast}} = \text{Amount needed for treatment}$$

VOLUNTEER CORN AND ITCHGRASS

Heavy infestations of volunteer corn (especially when uneven emergence is occurring from ears buried at varying soil depths) should be treated as a special weed problem. Apply after ALL of the volunteer corn has emerged but before the first emerged corn grows to a height where thorough coverage (including the whorl) is not possible. Spray boom height and pressures should be adjusted to obtain total coverage of the entire volunteer corn plant. Thorough coverage of the volunteer corn foliage and penetration of clumps is essential. Use 2.0 to 3-1/3 pints of HOELON 3EC Herbicide in 10 to 40 gallons of water per acre at not less than 40 PSI.

At the lower labeled use rate, use 1 pint to 1 quart of crop oil concentrate approved for use on growing crops. Use an oil concentrate containing a blend of 80% (minimum) petroleum or vegetable base oil with the remaining composed of a tolerance exempt surfactant. Spot treatments of clumps may be necessary.

For treatment of individual clumps of volunteer corn, use 1-1/3 fluid ounces per one gallon of spray per acre (3-1/3 pints per 40 gallons). In mixed annual grassy weed/volunteer corn infestations, the delayed broadcast application of HOELON 3EC Herbicide to control heavy infestations of volunteer corn could result in reduced control of any annual grassy weeds that have grown beyond the recommended leaf stages. Do not apply more than one application in a growing season.

For post-emergence control of itchgrass, apply to emerged itchgrass before it has grown beyond 30-36 inches in height. Use 2.0 to 2-2/3 pints per acre of HOELON 3EC Herbicide in at least 10 gallons of water per acre. Flat fan nozzles and a pressure of at least 40 PSI have proven most effective. HOELON 3EC Herbicide may be used as a broadcast treatment applied directly over the top of the soybeans. Complete coverage of itchgrass is essential. Delayed application to control heavy infestations of itchgrass may give reduced control of other susceptible annual grasses. HOELON 3EC Herbicide is most effective when the grasses are actively growing. It is less effective when used under drought stress.

Special Notes for Soybeans:

- 1) DO NOT tank mix HOELON 3EC Herbicide with any other herbicide or apply any other herbicide within one week of a HOELON 3EC Herbicide application.
- 2) Barvel^R, 2,4-D, and other phenoxy herbicide injury sometimes occurs in soybean fields treated with HOELON 3EC Herbicide even though these herbicides were not recently used in the sprayer. This situation is not caused by HOELON 3EC Herbicide and is often caused by sprayer contamination. If these products have been used in your sprayer, refer to Hoechst-Roussel Agri-Vet Company Technical Bulletin No. 100, "How to Avoid Sprayer Contamination", available through your HOELON 3EC Herbicide supplier, or call (201) 231-3520.
- 3) HOELON 3EC Herbicide must be applied prior to sixth trifoliate leaf formation.

DIRECTIONS FOR THE USE OF HOELON^R 3EC HERBICIDE ON ACREAGE CONSERVATION RESERVE (SET-ASIDE)

(The general information section must also be read for complete use instructions.)

HOELON 3EC Herbicide may be used to control the annual grassy weeds in acreage conservation reserve or set-aside programs. This acreage is often seeded to wheat, clover, or alfalfa as a cover crop. These cover crops have excellent tolerance to HOELON 3EC Herbicide. Use 2.0 pints to 3-1/3 pints per acre when the annual grassy weeds are in the 1 to 4 leaf stage as noted in the use directions section of this labeling. In most situations, 2.0 pints of HOELON 3EC Herbicide plus 2 pints of crop oil concentrate will offer commercially acceptable control of annual grasses in acreage conservation reserve programs. Apply early to young, actively growing grassy weeds. DO NOT harvest or graze cover crops treated with HOELON 3EC Herbicide. DO NOT apply to cover crops such as oats, sorghum, and sudan grass, as injury may occur.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

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

Causes eye and skin damage. Do not get in eyes or on skin or clothing. Wear goggles and respirator when handling. Avoid contact or inhalation of spray mist. Wash thoroughly after using and change clothing. Do not take internally.

The following protective apparel must be worn during all loading and mixing operations and when applied by ground equipment: gloves, waterproof boots, impermeable pants and shirts, goggles and a cartridge type respirator. Aerial pilots are not to be involved in the mixing and loading unless the aforementioned equipment is worn. Pilots must wear a cartridge type respirator during application unless the aircraft is equipped with an air filter system.

The Environmental Protection Agency has concluded that diclofop-methyl, the active ingredient in this product, produced tumors in laboratory mice. This effect was not observed in other species tested. The user must read and follow all precautionary statements on this label. Give particular attention to protective clothing requirements.

Environmental Hazards

This pesticide is toxic to fish. Use with care when applying in areas adjacent to any body of water. Keep out of lakes, streams, ponds, drainage basins, tidal marshes and estuaries. Do not apply when weather conditions favor runoff or drift. Avoid direct application or drift of spray material to water surfaces. Do not apply within 100 feet of aquatic habitat. Do not contaminate arable land and/or water by cleaning of equipment and/or disposal of waste.

Groundwater Advisory: Residues of diclofop-methyl can seep or leach through soil and can contaminate groundwater which may be used as drinking water. Users are advised not to apply diclofop-methyl where the water table (groundwater) is close to the surface and where the soils are very permeable, i.e., well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

First Aid

In case of skin or eye contact, immediately flush with plenty of water for at least 15 minutes.

If swallowed, DO NOT INDUCE VOMITING, but seek medical attention immediately.

Note to Physician: Aspiration hazard may contraindicate the use of gastric lavage. For emergency assistance call (201) 231-2000.

Storage and Disposal

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

Do not use or store near heat or open flame.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not store below 20° .

Environmental Hazards

This pesticide is toxic to fish. Use with care when applying in areas adjacent to any body of water. Keep out of lakes, streams, ponds, drainage basins, tidal marshes and estuaries. Do not apply when weather conditions favor runoff or drift. Avoid direct application or drift of spray material to water surfaces. Do not apply within 100 feet of aquatic habitat. Do not contaminate arable land and/or water when disposing of equipment washwaters.

First Aid

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Note to Physician: Aspiration hazard may contraindicate the use of gastric lavage. For emergency assistance call (201) 231-2000.

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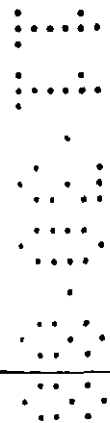
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CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not store below 20°F.



Important Notice: Disclaimer

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using. If terms are not acceptable, return at once unopened. HOECHST-ROUSSEL AGRI-VET COMPANY warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to HOECHST-ROUSSEL AGRI-VET COMPANY AND USER ASSUMES THE RISK OF ANY SUCH USE. HOECHST-ROUSSEL AGRI-VET COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall HOECHST ROUSSEL AGRI-VET COMPANY be liable for consequential, special, indirect or incidental damages resulting from the use or handling of this product. The foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of HOECHST-ROUSSEL AGRI-VET COMPANY.

HOELON^R 3EC Herbicide is a registered trademark of Hoechst AG.

Buctril^R Herbicide is a registered trademark of Rhone-Poulenc Inc.,
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Glean^R Herbicide is a registered trademark of E. I. DuPont deNemours and
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Harmony^R Herbicide is a registered trademark of E. I. DuPont deNemours and
Company, Inc.

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