

PM 23

45639-173

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Please read instructions on reverse before completing form.

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



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other (XX)

OPP Identifier Number 256497

Best Available Image

Application for Pesticide - Section I

1. Company/Product Number: 45639-173
2. EPA Product Manager: J. Miller
3. Proposed Classification: Restricted (XX)
4. Company/Product (Name): HOELON #EC
5. Name and Address of Applicant: AgrEvo USA Company, 2711 Centerville Road, Wilmington, DE 19808
6. Expedited Review: In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated JAN 23 1998. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. For section I and Section II: Add the State of Pennsylvania for use on wheat and barley.

Includes only modified label pages.

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other (Specify). 3. Location of Net Contents Information: Label (X), Container (X). 4. Size(s) Retail Container. 5. Location of Label Directions: On Label, On Labeling accompanying product. 6. Manner in Which Label is Affixed to Product: Lithograph, Paper glued, Stenciled.

Section - IV

1. Contact Point: Name: Bert Volger, Ph.D., Title: Manager, Regulatory Affairs, Telephone: (302) 892-3152. Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 2. Signature: Bert Volger, 3. Title: Manager, Regulatory Affairs, 4. Typed Name: Bert Volger, Ph.D., 5. Date: 01/06/98. 6. Date Application Received (Stamped)

A company of Hoechst and NOR-AM

January 6, 1998

NOTIFICATION

JAN 23 1998

Mr. Eugene Wilson, PM 23
U. S. Environmental Protection Agency
401 M Street, South West
Washington, D. C. 20460-0001

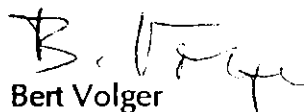
Subject: Hoelon® 3EC Herbicide, Registration Number 45639-173
Label Notification, Add State of Pennsylvania

Dear Mr. Wilson:

Enclosed please find the Above Captioned Label Notification (see three(3) copies of labels before and after: *highlighted*).

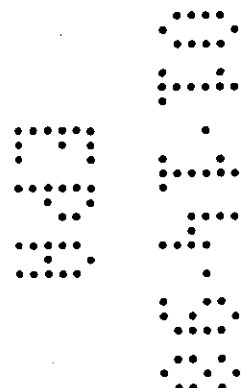
If you have any questions regarding this Notification, please contact me directly.

Sincerely,


Bert Volger

enclosure

BV:gdl:wilson5



after 3/7

**RESTRICTED USE PESTICIDE
DUE TO ONCOGENICITY IN LABORATORY MICE***
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.



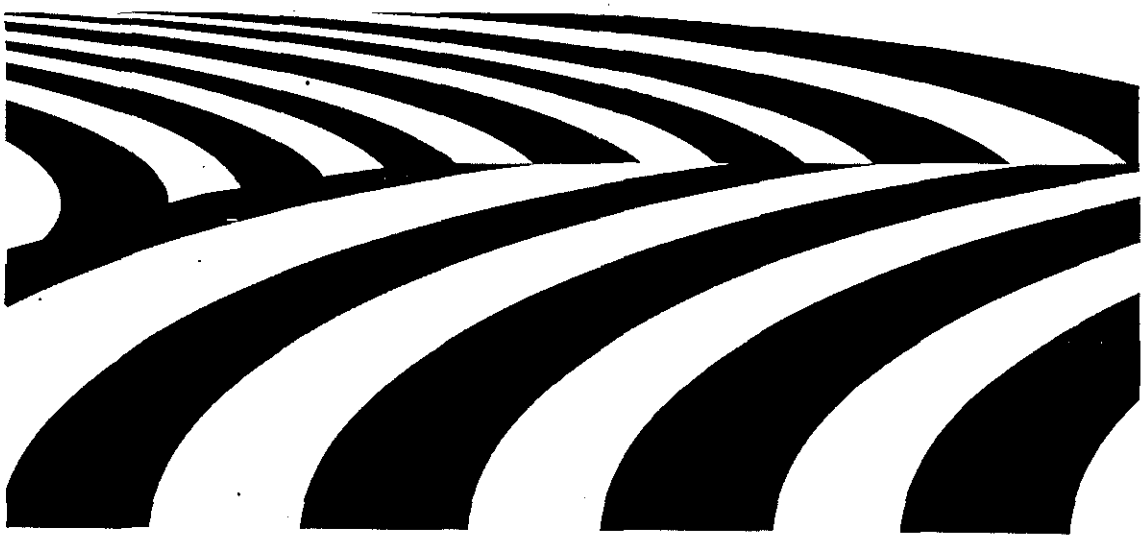
AGREVO®

Hoelon®

NOTIFICATION
JAN 23 1998

3EC HERBICIDE

For Control of Wild Oats and Other Annual Grasses
in Wheat (Including Durum Wheat) and Barley



Specimen Label

ACTIVE INGREDIENT:	
diclofop-methyl: methyl 2-[4-(2,4-dichlorophenoxy) phenoxy] propanoate	34.7%†
INERT INGREDIENTS:	<u>65.3%</u>
TOTAL	100.0%

†Equivalent to 3.0 pounds of active ingredient per gallon.
Protected by U.S. Patent No. 4,301,295
EPA Registration Number 45639-173

**KEEP OUT OF REACH
OF CHILDREN**

DANGER PELIGRO

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.)

*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.

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, rigpgut brome, Japanese brome, windgrass and bulbous bluegrass in the States of:

Colorado	Montana	South Dakota
Idaho	Nebraska	Utah
Kansas	Oregon	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*), rigpgut brome (*Bromus rigidus*), Japanese brome (*Bromus japonicus*), windgrass (*Apera interrupta*), and bulbous bluegrass (*Poa bulbosa*) will vary, depending on soil texture, soil organic matter content, soil moisture, and density of grass populations.

HOELON 3EC HERBICIDE APPLICATION RATES

Broadcast Rate in Pints/A		
% Organic Matter 1/2-2%	% Organic Matter 2-3%	% Organic Matter >3%
2-2 2/3	2 2/3	*

*On soils with greater than 3% organic matter, the 2 2/3 pints rate may provide only suppression of the grassy weeds listed on the preplant incorporated section of this label.

Use the highest recommended rate, according to the chart above, when heavy populations of annual grass (more than 25 plants per square foot) are anticipated (based on field history) and/or if soils are dry at the time of application.

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 flexline harrow, operated at 3-6 mph, is recommended. If the seedbed is trashy at the time of application, use an implement that is capable of incorporating the trash in the top 2 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 a 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

- DO NOT apply HOELON 3EC Herbicide preplant incorporated to barley as barley damage will occur.
- 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.

DIRECTIONS FOR THE PREEMERGENCE USE OF HOELON 3EC HERBICIDE ON WINTER WHEAT

This product is registered for preemergence use on winter wheat to control annual ryegrass in the States of:

Alabama	Maryland	South Carolina
Arkansas	Mississippi	Tennessee
Delaware	Missouri	Texas
Georgia	North Carolina	Virginia
Indiana	Oklahoma	Washington
Kentucky	Oregon	West Virginia
Louisiana	Pennsylvania	

(The General Information section must also be read for complete use instructions.)

HOELON 3EC HERBICIDE APPLICATION RATES

Soil Texture	Broadcast Rate in Pints/A	
	% Organic Matter 1/2-2%	% Organic Matter >2%
Coarse (sandy loam, loamy sand)	2	2 2/3
Fine (loam, silt loam, silt)	2 2/3	2 2/3

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

PREEMERGENCE SPECIAL INSTRUCTIONS

- DO NOT apply HOELON 3EC Herbicide preemergence to barley as barley damage will occur.
- HOELON 3EC Herbicide may be mixed with liquid fertilizers when making preemergence 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.
- HOELON 3EC Herbicide applied preemergence surface will not provide adequate brome control or control wild oats.



DIRECTIONS FOR THE POSTEMERGENCE USE OF HOELON 3EC HERBICIDE ON WINTER WHEAT AND SPRING WHEAT (INCLUDING DURUM WHEAT)

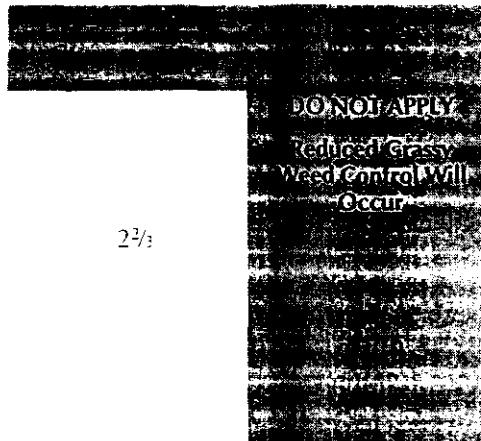
This product is registered for postemergence use on wheat (including durum wheat) in the following States:

Alabama	Idaho	Maryland	Nevada	Oregon	Texas
Arizona	Illinois	Minnesota	New Mexico	Pennsylvania	Utah
Arkansas	Indiana	Mississippi	North Carolina	South Carolina	Virginia
Colorado	Kansas	Missouri	North Dakota	South Dakota	Washington
Delaware	Kentucky	Montana	Oklahoma	Tennessee	West Virginia
Georgia	Louisiana	Nebraska			

(The General Information section must also be read for complete use instructions.)

Apply HOELON 3EC Herbicide as a broadcast postemergence spray at the rates listed below:

Susceptible Annual Grassy Weeds	Amount of HOELON 3EC Herbicide Per Acre (Pints) ¹ Relative to Growth Stage of Annual Grassy Weeds		
	1-3 Leaf	3-4 Leaf	5 Leaf-2 Tillers
Annual ryegrass (Italian) ² <i>Lolium multiflorum</i>	1 1/3	1 1/3-2	2-2 2/3
Broadleaf signalgrass (suppression) <i>Brachiaria platyphylla</i>	2 2/3		
Crabgrass ³ <i>Digitaria sanguinalis</i>	2 2/3		
Persian darnel <i>Lolium persicum</i>	2 2/3		
Fall panicum <i>Panicum dichotomiflorum</i>			
Barnyardgrass watergrass <i>Echinochloa crus-galli</i>			
Giant foxtail <i>Setaria faberii</i>			
Green foxtail pigeongrass <i>Setaria viridis</i>			
Yellow foxtail pigeongrass ³ <i>Setaria lutescens</i>			
Wild oat <i>Avena fatua</i>	2 to 2 2/3	2 2/3	
Itchgrass Raoulgrass <i>Rottboellia exaltata</i>			
Volunteer corn <i>Zea mays</i>			
Witchgrass (suppression) <i>Panicum capillare</i>			
Smallseed canarygrass (suppression) ⁴ <i>Phalaris minor</i>			
Spring milletgrass <i>Millium vernale</i>			
Hooded canarygrass ⁴ <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 preemergence 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 smallseed and hooded canarygrass in that section of the labeling.

POSTEMERGENCE SPECIAL INSTRUCTIONS

When using HOELON 3EC Herbicide postemergence 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 pints per acre rate when the annual grassy weeds are in the 1-3 leaf stage of growth, and growing conditions are optimal. In the north central 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) 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 4 days. In either region, begin checking your fields 10-12 days after planting to assure correct application timing. Higher application water volumes and 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, if growth is retarded due to adverse growing conditions, or under heavy weed infestations. Apply HOELON 3EC Herbicide before the first node (jointing) develops in the wheat plant.

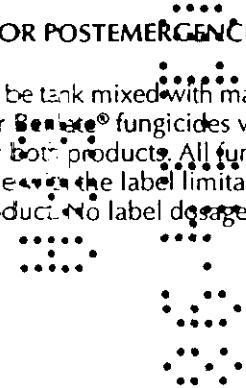
Do not apply HOELON 3EC Herbicide less than 77 days before harvesting wheat.

CROP OIL CONCENTRATE

In spring wheat (including durum wheat) and winter wheat, it may be helpful to add 1 pint to 1 quart per acre of crop oil concentrate 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. Do not use crop oil concentrate with HOELON 3EC Herbicide in winter wheat when conditions are cool and wet. Some slight wheat yellowing may be noted when crop oil concentrates are added to HOELON 3EC Herbicide.

FUNGICIDE TANK MIXES FOR POSTEMERGENCE APPLICATIONS IN WHEAT

HOELON 3EC Herbicide can be tank mixed with mancozeb, Tilt®, Topsin®, Mertect® DF or Benlate® fungicides when application timing is correct for both products. All fungicides should be used in accordance with the label limitations and precautions for each product. No label dosage rates should be exceeded.



DIRECTIONS FOR THE POSTEMERGENCE USE OF HOELON 3EC HERBICIDE ON BARLEY

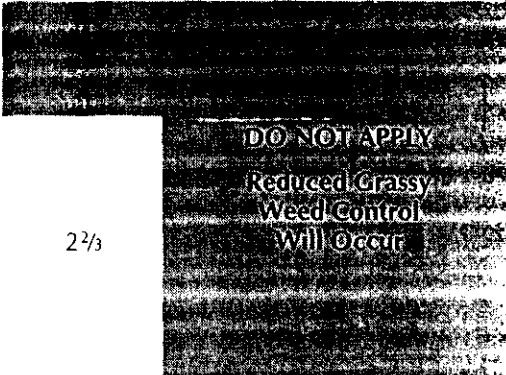
This product is registered for postemergence use on all spring barley varieties in the following States:

Arizona	Maryland	New Mexico	Pennsylvania	Virginia
Colorado	Minnesota	North Carolina	South Carolina	Washington
Delaware	Montana	North Dakota	South Dakota	West Virginia
Idaho	Nebraska	Oklahoma	Texas	Wyoming
Kansas	Nevada	Oregon	Utah	

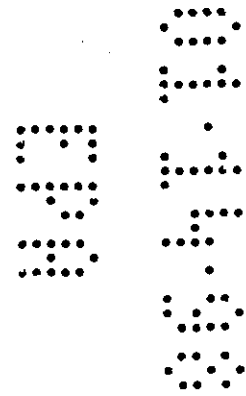
(The General Information section must also be read for complete use instructions.)

Apply HOELON 3EC Herbicide as a broadcast postemergence spray at the rates listed below:

Susceptible Annual Grassy Weeds	Amount of HOELON 3EC Herbicide Per Acre (Pints) ¹ Relative to Growth Stage of Annual Grassy Weeds			
	1-3 Leaf	4 Leaf	5 Leaf	5 Leaf-2 Tillers
Annual ryegrass (Italian) ² <i>Lolium multiflorum</i>	1 1/3	1 1/3	2	2 2/3
Broadleaf signalgrass suppression <i>Brachiaria platyphylla</i>	2 2/3			
Crabgrass ³ <i>Digitaria sanguinalis</i>	2 2/3			
Persian darnel <i>Le. LM persicum</i>	2 2/3			
Smallseed canarygrass ³ <i>Phalaris minor</i>	2 2/3			
Fall panicum <i>Panicum dictotomiflorum</i>				
Barnyardgrass watergrass <i>Echinochloa crus-galli</i>				
Giant foxtail <i>Setaria faberii</i>				
Green foxtail pigeongrass <i>Setaria viridis</i>				
Yellow foxtail pigeongrass ³ <i>Setaria lutescens</i>	2 to 2 2/3	2 2/3		
Wild oat <i>Avena fatua</i>				
Itchgrass Raoulgrass <i>Rottboellia exaltata</i>				
Volunteer corn <i>Zea mays</i>				
Witchgrass suppression <i>Panicum capillare</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 preemergence in winter wheat. See appropriate recommendation section in this labeling.
³ For best control of crabgrass, small seed canarygrass and yellow foxtail, application should be made before the second leaf fully emerges.



IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of AgrEvo USA Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AgrEvo USA Company disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AGREVO USA COMPANY'S ELECTION, THE REPLACEMENT OF PRODUCT.

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MARKETED BY:



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MIDWESTERN

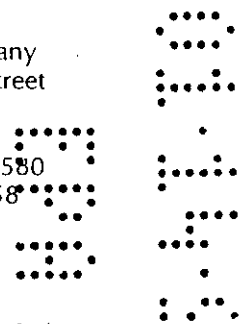
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FAX: (209) 224-1758



Replaces HE-SL-1044-01-Rev. 9/97
Revisions Include:
• Addition of Pennsylvania on lists of States; pages 4, 5, & 6.

