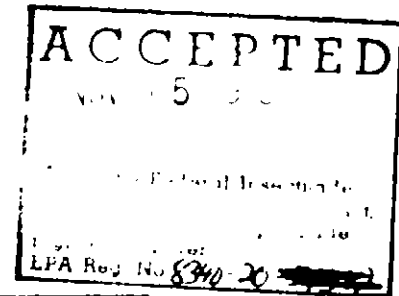


NOVEMBER 1, 1989

SUPPLEMENTAL LABELING

HOELON<sup>®</sup> 3EC HERBICIDE  
(EPA REG. NO. 8340-20-54382)

FOR DISTRIBUTION AND USE ON WHEAT ONLY  
WITHIN THE STATE OF CALIFORNIA



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.

DIRECTIONS FOR USE

IT IS A VIOLATION OF STATE AND FEDERAL LAW TO USE THIS PRODUCT IN  
A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL INFORMATION

HOELON 3EC HERBICIDE IS A SELECTIVE POSTEMERGENCE HERBICIDE FOR  
THE CONTROL OF ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) AND/OR MIXED  
INFESTATIONS OF ANNUAL RYEGRASS AND WILD OATS (AVENA FATUA) IN  
WHEAT ONLY.

APPLICATION INFORMATION

GROUND:

GROUND APPLICATIONS MUST BE IN AT LEAST TEN (10) GALLONS OF WATER  
CARRIER PER ACRE, USING A MINIMUM OF 40 PSI. FLAT FAN NOZZLES,  
SPACED 10 OR 20 INCHES APART ACROSS THE ROOM ARE RECOMMENDED FOR  
OPTIMUM COVERAGE. THOROUGH, UNIFORM COVERAGE OF TARGET WEEDS IS  
CRITICAL FOR ACHIEVING SATISFACTORY RESULTS.

AERIAL:

AERIAL APPLICATIONS MUST BE APPLIED IN AT LEAST FIVE (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. DO NOT  
MAKE AERIAL APPLICATIONS WHEN THE 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.

10/16/89

**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<sup>R</sup> 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, AND ACREAGE CONSERVATION RESERVE (SET ASIDE)

**ACTIVE INGREDIENT\***

DICLOFOP-METHYL:METHYL 2-  
[4-(2,4-DICHLOROPHOXY)PHENOXY]PROPANOATE 35.49%  
INERT INGREDIENTS 64.51%

TOTAL 100.00%

\*EQUIVALENT TO 3.0 POUNDS OF ACTIVE INGREDIENT PER GALLON

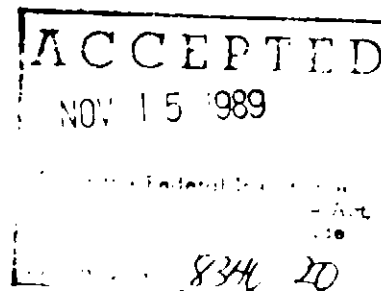
**KEEP OUT OF REACH OF CHILDREN.**

**DANGER**

SEE ADDITIONAL PRECAUTIONARY STATEMENTS AT END OF LABEL.  
EPA REG. No. 8340-20

**Hoechst Celanese**

Hoechst Celanese Corporation  
Route 202-206 North  
Somerville NJ 08876



**Hoechst** 

## HOELON 3EC HERBICIDE APPLICATION RATES:

	HOELON BROADCAST RATE IN PINTS PER ACRE		
	1-3 LEAF	4 LEAF	4-5 LEAF
	ANNUAL RYEGRASS WILD OATS	1 1/3 PTS. 2 PTS.	1 1/3 PTS. DO NOT APPLY

## WEATHER CONSIDERATIONS:

IN FALL SEEDED WINTER OR SPRING WHEAT VARIETIES, IF ONE OR A COMBINATION OF THE FOLLOWING ENVIRONMENTAL CONDITIONS ARE PRESENT OR PROLONGED, PROCEEDING 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, THE WHEAT IS ALREADY UNDER SEVERE ENVIRONMENTAL STRESS; DO NOT COMPOUND THE STRESS WITH CHEMICAL APPLICATIONS. WITH RESPECT TO THE AFOREGOING STATEMENT: BUYER SPECIFICALLY ASSUMES ALL RISKS SHOULD COLD AND/OR WET WEATHER CONDITIONS OCCUR PRIOR TO OR DURING THE HOELON 3EC HERBICIDE APPLICATION.

## NOTES:

1. HOELON 3EC HERBICIDE DOES NOT CONTROL BROADLEAF WEEDS.
2. DO NOT TANK MIX HOELON 3EC HERBICIDE WITH ANY OTHER PESTICIDES.
3. DO NOT ALLOW LIVESTOCK TO GRAZE TREATED FIELDS. DO NOT HARVEST FORAGE, HAY OR STRAW FROM TREATED FIELDS PRIOR TO GRAIN HARVEST.
4. IN CALIFORNIA, HOELON 3EC HERBICIDE SHOULD BE APPLIED POSTEMERGENCE ONLY TO WHEAT.
5. DO NOT APPLY HOELON 3EC HERBICIDE IN MERCED, MONTEREY, SANTA CLARA, KERN, LOS ANGELES, TULARE, STANISLAUS, SAN LOUIS OBISPO, RIVERSIDE AND MADERA COUNTIES.

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

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### GENERAL INFORMATION

HOELON<sup>R</sup> 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, AND ACREAGE CONSERVATION RESERVE. HOELON<sup>R</sup> 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), PREEMERGENCE, OR POSTEMERGENCE. READ AND CAREFULLY FOLLOW ALL LABEL DIRECTIONS SPECIFIED IN THIS LABELING.

FOR THE USE OF HOELON 3EC HERBICIDE IN CALIFORNIA, SEE SUPPLEMENTAL LABELING.

### APPLICATION EQUIPMENT NOTES:

#### GROUND:

WHETHER APPLYING HOELON 3EC HERBICIDE PREPLANT INCORPORATED, PREEMERGENCE, OR POSTEMERGENCE, 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 POSTEMERGENCE, AND HIGHLY IMMOBILE IN THE SOIL WHEN APPLIED PREPLANT INCORPORATED OR PREEMERGENCE. 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.

**WINTER WHEAT:**

THIS PRODUCT IS REGISTERED FOR THE PREPLANT INCORPORATED USE TO CONTROL  
 DOWNY BROME, RINGUT BROME, JAPANESE BROME, WINDGRASS AND BULBOUS  
 BLUEGRASS IN THE STATES OF:

COLORADO  
 IDAHO  
 KANSAS  
 MONTANA

NEBRASKA  
 OREGON  
 SOUTH DAKOTA  
 UTAH  
 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), RINGUT 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<sup>R</sup> 3EC HERBICIDE APPLICATION RATES:**

HOELON 3EC HERBICIDE BROADCAST RATE IN PINTS/A		
% ORGANIC MATTER 1/2 - 2%	% ORGANIC MATTER 2 - 3%	% ORGANIC MATTER >3%
2.0 - 2 2/3	2 2/3	NOT RECOMMENDED

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. ON SOILS WITH A MEDIUM TEXTURE AND GREATER THAN 2%  
 ORGANIC MATTER, THE 2-2/3 PINT RATE MAY ONLY PROVIDE SUPPRESSION OF THE  
 GRASSY WEEDS LISTED ON THE PREPLANT INCORPORATED SECTION OF THIS LABEL.

**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.

**DIRECTIONS FOR THE PREEMERGENCE USE OF HOELON<sup>R</sup> 3EC HERBICIDE ON WINTER WHEAT:**

THIS PRODUCT IS REGISTERED FOR PREEMERGENCE USE ON WINTER WHEAT TO CONTROL ANNUAL RYEGRASS IN THE STATES OF:

ALABAMA  
 ARKANSAS  
 DELAWARE  
 FLORIDA  
 GEORGIA  
 LOUISIANA

MARYLAND  
 MISSISSIPPI  
 NORTH CAROLINA  
 OKLAHOMA  
 OREGON  
 SOUTH CAROLINA

TENNESSEE  
 TEXAS  
 VIRGINIA  
 WASHINGTON  
 WEST VIRGINIA

(THE GENERAL INFORMATION SECTION MUST ALSO BE READ FOR COMPLETE USE INSTRUCTIONS.)

**HOELON<sup>R</sup> 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, SILT 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.

**PREEMERGENCE SPECIAL INSTRUCTIONS:**

1. DO NOT APPLY HOELON 3EC HERBICIDE PREEMERGENCE TO BARLEY AS BARLEY DAMAGE WILL OCCUR.
2. 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.
3. HOELON 3EC HERBICIDE APPLIED PREEMERGENCE SURFACE WILL NOT PROVIDE ADEQUATE BROME CONTROL OR CONTROL WILD OATS.

**DIRECTIONS FOR THE POSTEMERGENCE USE OF HOELON<sup>R</sup> 3EC HERBICIDE ON WINTER WHEAT, SPRING WHEAT, AND DURUM:**

THIS PRODUCT IS REGISTERED FOR POSTEMERGENCE USE ON WHEAT AND DURUM IN THE FOLLOWING STATES:

ALABAMA	GEORGIA	MISSISSIPPI	N. DAKOTA	TEXAS
ARIZONA	IDAHO	MONTANA	OKLAHOMA	UTAH
ARKANSAS	KANSAS	NEBRASKA	OREGON	VIRGINIA
COLORADO	LOUISIANA	NEVADA	S. CAROLINA	WASHINGTON
DELAWARE	MARYLAND	NEW MEXICO	S. DAKOTA	W. VIRGINIA
FLORIDA	MINNESOTA	N. CAROLINA	TENNESSEE	WYOMING



(THE GENERAL INFORMATION SECTION MUST ALSO BE READ FOR COMPLETE USE INSTRUCTIONS.)  
 APPLY HOELON<sup>®</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW.

AMOUNT OF HOELON<sup>®</sup> 3EC HERBICIDE PER ACRE (PINTS)<sup>1</sup> 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) <sup>2</sup> ( <i>LOLIUM MULTIFLORUM</i> )	1-1/3	1-1/3	2.0	2-2/3			
BROADLEAF SIGNALGRASS (SUPPRESSION) ( <i>BROCHIA FLATYLLIFOLIA</i> )	2-2/3	<div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;"> <p style="text-align: center; margin: 0;">DO NOT APPLY</p> <p style="text-align: center; margin: 0;">REDUCED GRASSY WEED CONTROL WILL OCCUR</p> </div>	<div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;"> <p style="text-align: center; margin: 0;">DO NOT APPLY</p> <p style="text-align: center; margin: 0;">REDUCED GRASSY WEED CONTROL WILL OCCUR</p> </div>	<div style="border: 1px solid black; padding: 10px; width: 100%; height: 100%;"> <p style="text-align: center; margin: 0;">DO NOT APPLY</p> <p style="text-align: center; margin: 0;">REDUCED GRASSY WEED CONTROL WILL OCCUR</p> </div>			
CRABGRASS ( <i>DIGITARIA SANGUINALIS</i> )	2-2/3						
PERSIAN DANIEL ( <i>LOLIUM PERSTICUM</i> )	2-2/3						
FALL PANICUM ( <i>PANICUM DICHOCHLOIDIFLORUM</i> )	2.0 TO 2-2/3				2-2/3	DO NOT APPLY	REDUCED GRASSY WEED CONTROL WILL OCCUR
BARNYARDGRASS (WATERGRASS) ( <i>ECHINOCHLOA CRUSGALLI</i> )							
GIANT FOXTAIL ( <i>SETARIA FRIBERTII</i> )							
GREEN FOXTAIL (PIGEONGRASS) ( <i>SETARIA VIRIDIS</i> )							
YELLOW FOXTAIL (PIGEONGRASS) <sup>3</sup> ( <i>SETARIA LUTESCENS</i> )							
WILD OAT ( <i>AVENA FATUA</i> )							
ITCHGRASS (RAUPLGRASS) ( <i>ROTIBOELLIA EXALTATA</i> )							
VOLUNTEER CORN ( <i>ZEA MAYS</i> )							
WITCHGRASS (SUPPRESSION) ( <i>PANICUM CAPILLARE</i> )							
SMALLSEED CANARYGRASS (SUPPRESSION) <sup>4</sup>							
( <i>PHALARIS MINOR</i> )							
HOODED CANARYGRASS <sup>4</sup> ( <i>PHALARIS PAPPONA</i> )							

<sup>1</sup> WHEN CONTROLLING MIXED POPULATIONS OF GRASSY WEEDS, ALWAYS USE THE RATE THAT WILL CONTROL THE LEAST SUSCEPTIBLE SPECIES.

<sup>2</sup> ANNUAL RYEGRASS MAY ALSO BE CONTROLLED PREEMERGENCE IN WINTER WHEAT. SEE APPROPRIATE RECOMMENDATION SECTION IN THIS LABELING.

<sup>3</sup> FOR BEST CONTROL OF CRABGRASS AND YELLOW FOXTAIL, APPLICATION SHOULD BE MADE BEFORE THE SECOND LEAF FULLY EMERGES.

<sup>4</sup> SEE SPECIFIC CONTROL RECOMMENDATIONS FOR SMALLSEED AND HOODED CANARYGRASS IN THIS SECTION OF THE LABELING.

**POSTEMERGENCE SPECIAL INSTRUCTIONS:**

WHEN USING HOELON<sup>R</sup> 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 2.0 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) 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. APPLY HOELON 3EC HERBICIDE BEFORE THE FIRST NODE (JOINTING) DEVELOPS IN THE WHEAT PLANT.

**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. 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.

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 POSTEMERGENCE 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.

**HOELON 3EC HERBICIDE PLUS BUCTRIL<sup>R</sup> 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 2-2/3 PINTS PER ACRE (DEPENDING ON SIZE OF ANNUAL GRASSES) AS SPECIFIED ON THIS LABEL. BUCTRIL SHOULD BE MIXED AT A RATE OF 1.0 TO 1-1/2 PINTS PER ACRE, ACCORDING TO THE DIRECTIONS SPECIFIED ON THE RESPECTIVE LABEL.

**HOELON<sup>R</sup> 3EC HERBICIDE PLUS HARMONY<sup>R</sup> HERBICIDE**

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 3EC HERBICIDE SHOULD BE 2-2/3 PINTS PER ACRE IN WHEAT AND DURUM. 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 3EC HERBICIDE + HARMONY. USE SEQUENTIAL TREATMENTS.

IN WHEAT AND DURUM, CROP OIL CONCENTRATE CAN BE ADDED TO A HOELON 3EC HERBICIDE + HARMONY TANK MIX.

**HOELON 3EC HERBICIDE PLUS BUCTRIL<sup>R</sup> 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) 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.

**HOELON<sup>R</sup> 3EC HERBICIDE PLUS BUCTRIL<sup>R</sup> PLUS GLEAN<sup>R</sup> - WINTER WHEAT ONLY**

A THREE-WAY TANK MIX OF HOELON 3EC HERBICIDE + BUCTRIL + GLEAN CAN BE APPLIED FOR WILD OAT CONTROL AND BROADLEAF WEED CONTROL IN WINTER WHEAT. THE USE RATE OF HOELON 3EC HERBICIDE SHOULD BE 2 2/3 PINTS PER ACRE WITH A MAXIMUM OF 1/4 OUNCE GLEAN. BUCTRIL SHOULD BE USED AT 1 TO 1-1/2 PINTS PER ACRE. THIS TANK MIXTURE SHOULD ONLY BE USED WHEN SOIL MOISTURE IS GOOD AND WILD OATS ARE IN THE 1 - 4 LEAF STAGE. REFER TO THE GLEAN LABEL FOR CROP ROTATION RESTRICTIONS.

**HOELON 3EC HERBICIDE 3EC HERBICIDE PLUS BUCTRIL PLUS HARMONY EXTRA - WINTER WHEAT ONLY**

A THREE-WAY TANK MIX OF HOELON 3EC HERBICIDE + BUCTRIL + HARMONY EXTRA CAN BE APPLIED FOR WILD OAT CONTROL AND BROADLEAF WEED CONTROL IN WINTER WHEAT. THE HOELON 3EC HERBICIDE RATE SHOULD BE 2 2/3 PINTS PER ACRE WITH A MAXIMUM OF 0.4 OUNCE HARMONY EXTRA. BUCTRIL SHOULD BE USED AT 1 - 1 1/2 PINTS PER ACRE. THIS TANK MIXTURE SHOULD ONLY BE USED UNDER GOOD SOIL MOISTURE CONDITIONS WHEN WILD OATS ARE IN THE 1 - 4 LEAF STAGE.

**FERTILIZER TANK MIXES POSTEMERGENCE IN WHEAT**

HOELON 3EC HERBICIDE APPLIED POSTEMERGENCE 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 CARRIER PER ACRE, AND AIR APPLICATIONS WITH A MINIMUM OF 5 GALLONS OF CARRIER PER ACRE. IF OTHER BROADLEAF HERBICIDES ARE APPLIED WITHIN 5 DAYS, REDUCED GRASSY WEED CONTROL MAY OCCUR.

**DIRECTIONS FOR THE POSTEMERGENCE CONTROL OF SMALLSEED AND HOODED CANARYGRASS IN WHEAT IN ARIZONA ONLY:**

APPLY HOELON<sup>R</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW.

**AMOUNT OF HOELON<sup>R</sup> 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 <sup>1</sup> ( <u>PHALARIS PARADOXA</u> )	1-3 LEAVES	2.0 TO 2-2/3
SMALLSEED CANARYGRASS (SUPPRESSION) <sup>2</sup> ( <u>PHALARIS MINOR</u> )	1-2 LEAVES	2-2/3

<sup>1</sup>DO NOT ADD CROP OIL CONCENTRATE.

<sup>2</sup>UNDER DRY CONDITIONS ADD 1 PINT TO 1 QUART PER ACRE OF CROP OIL CONCENTRATE.

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

THIS PRODUCT IS REGISTERED FOR POSTEMERGENCE USE ON BARLEY IN THE FOLLOWING STATES:

ARIZONA	KANSAS	NEBRASKA	N. DAKOTA	S. DAKOTA	WASHINGTON
COLORADO	MARYLAND	NEVADA	OKLAHOMA	TEXAS	W. VIRGINIA
DELAWARE	MINNESOTA	NEW MEXICO	OREGON	UTAH	WYOMING
IDAHO	MONTANA	N. CAROLINA	S. CAROLINA	VIRGINIA	

(THE GENERAL INFORMATION SECTION MUST ALSO BE READ FOR COMPLETE USE INSTRUCTIONS.)

APPLY HOELON<sup>R</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW.

**AMOUNT OF HOELON<sup>R</sup> 3EC HERBICIDE PER ACRE (PINTS)<sup>1</sup>  
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) <sup>2</sup> ( <u>LOLIUM MULTIFLORUM</u> )	1-1/3	1-1/3	2.0	2-2/3
BROADLEAF SIGNALGRASS (SUPPRESSION) ( <u>BRACHIARIA PLATYPHYLLA</u> )	2-2/3			
CRABGRASS ( <u>DIGITARIA SANGUINALIS</u> )	2-2/3			
PERSIAN DARNEL ( <u>LOLIUM PERSICUM</u> )	2-2/3			
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> )				
YELLOW FOXTAIL (PIGEONGRASS) <sup>3</sup> ( <u>SETARIA LUTESCENS</u> )	2.0 TO 2-2/3			
WILD OAT ( <u>AVENA FATUA</u> )				
ITCHGRASS (RAOULGRASS) ( <u>ROTTBOELLIA EXALTATA</u> )				
VOLUNTEER CORN ( <u>ZEA MAYS</u> )				
WITCHGRASS (SUPPRESSION) ( <u>PANICUM CAPILLARE</u> )				
HOODED CANARYGRASS ( <u>PHALARIS PARADOXA</u> )				

DO  
NOT  
APPLY

REDUCED GRASSY WEED  
CONTROL WILL OCCUR

<sup>1</sup> WHEN CONTROLLING MIXED POPULATIONS OF GRASSY WEEDS, ALWAYS USE THE RATE THAT WILL CONTROL THE LEAST SUSCEPTIBLE SPECIES.

<sup>2</sup> ANNUAL RYEGRASS MAY ALSO BE CONTROLLED PREEMERGENCE IN WINTER WHEAT. SEE APPROPRIATE RECOMMENDATION SECTION IN THIS LABELING.

<sup>3</sup> FOR BEST CONTROL OF CRABGRASS AND YELLOW FOXTAIL, APPLICATION SHOULD BE MADE BEFORE THE SECOND LEAF FULLY EMERGES.

**HOELON<sup>R</sup> 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<br>A) WATER-LOGGED OR POORLY DRAINED FIELDS.<br>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 AFOREGOING 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 POSTEMERGENCE 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).

**HOELON 3EC HERBICIDE PLUS BUCTRIL<sup>R</sup> 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 TO 1-1/2 PINTS PER ACRE, ACCORDING TO THE DIRECTIONS SPECIFIED ON THE RESPECTIVE LABEL.

**HOELON<sup>R</sup> 3EC HERBICIDE PLUS HARMONY<sup>R</sup> TANK MIXES**

A TANK MIX OF HOELON 3EC HERBICIDE + HARMONY CAN BE APPLIED FOR WILD OAT AND BROADLEAF WEED CONTROL IN BARLEY. IN BARLEY, 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 3EC HERBICIDE + HARMONY. USE SEQUENTIAL TREATMENTS.

**HOELON<sup>R</sup> 3EC HERBICIDE PLUS BUCTRIL<sup>R</sup> 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.

**SPECIAL NOTES FOR SPRING BARLEY:**

- 1) DO NOT TANK MIX HOELON 3EC HERBICIDE WITH GLEAN<sup>R</sup>.
- 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 PREEMERGENCE TO BARLEY.

**HOELON<sup>R</sup> 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 FALL SEEDING 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 POSTEMERGENCE APPLICATIONS IN WINTER BARLEY**

SEE BROADLEAF TANK MIXES APPROVED FOR USE ON SPRING BARLEY.

**FERTILIZER TANK MIXES POSTEMERGENCE 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<sup>R</sup>.
- 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 WINTER BARLEY.



**DIRECTIONS FOR THE POSTEMERGENCE USE OF HOELON<sup>R</sup> 3EC HERBICIDE ON DRY FIELD PEAS (INCLUDING AUSTRIAN WINTER PEAS) AND LENTILS.**

THIS PRODUCT IS REGISTERED FOR POSTEMERGENCE USE ON DRY FIELD PEAS IN THE FOLLOWING STATES: IDAHO, OREGON, AND WASHINGTON.

THIS PRODUCT IS REGISTERED FOR POSTEMERGENCE USE ON LENTILS IN THE FOLLOWING STATES: IDAHO AND WASHINGTON.

(THE GENERAL INFORMATION SECTION MUST ALSO BE READ FOR COMPLETE USE INSTRUCTIONS.)

APPLY HOELON<sup>R</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW.

AMOUNT OF HOELON<sup>R</sup> 3EC HERBICIDE PER ACRE (PINTS)<sup>1</sup> 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) <sup>2</sup> ( <i>LOLIUM MULTIFLORUM</i> )	1-1/3	1-1/3	2.0	2-2/3
BARNYARDGRASS (WATERGRASS) ( <i>ECHINOCHLOA CRUSGALLI</i> )	2.0	2-2/3		
GREEN FOXTAIL ( <i>SETARIA VIRIDIS</i> )	2.0	2-2/3		
WILD OAT ( <i>AVENA FATUA</i> )	2.0	2-2/3		

DO NOT APPLY  
REDUCED GRASSY  
WEED CONTROL  
WILL OCCUR

<sup>1</sup>WHEN CONTROLLING MIXED POPULATIONS OF ANNUAL GRASSY WEEDS, ALWAYS USE THE RATE WHICH WILL CONTROL THE LEAST SUSCEPTIBLE SPECIES.

<sup>2</sup>ANNUAL RYEGRASS MAY ALSO BE CONTROLLED PREEMERGENCE 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 1-3 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) DO NOT TANK MIX HOELON 3EC HERBICIDE WITH CROP OIL CONCENTRATE FOR USE ON DRY FIELD PEAS AND LENTILS.
- 7) APPLY PRIOR TO THE BLOOM STAGE OF DRY FIELD PEAS AND LENTILS.

DIRECTIONS FOR THE POSTEMERGENCE USE OF HOELON<sup>R</sup> 3EC HERBICIDE ON FLAX

THIS PRODUCT IS REGISTERED FOR POSTEMERGENCE 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<sup>R</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW:

AMOUNT OF HOELON<sup>R</sup> 3EC HERBICIDE: PER ACRE (PINTS)<sup>1</sup> 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	2-2/3
GREEN FOXTAIL ( <i>SETARIA VIRIDIS</i> )	2.0	2-2/3
YELLOW FOXTAIL <sup>2</sup> ( <i>SETARIA LUTESCENS</i> )	2.0	2-2/3
BARNYARDGRASS (WATERGRASS) ( <i>ECHINOCHLOA CRUSGALLI</i> )	2.0	2-2/3
PERSIAN DARNEL ( <i>LOLIUM PERSICUM</i> )	2-2/3	DO NOT APPLY

<sup>1</sup>WHEN CONTROLLING MIXED POPULATIONS OF ANNUAL GRASSY WEEDS, ALWAYS USE THE RATE WHICH WILL CONTROL THE LEAST SUSCEPTIBLE SPECIES.

<sup>2</sup>FOR 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<sup>R</sup> 3EC HERBICIDE ON ACREAGE CONSERVATION RESERVE**

THIS PRODUCT IS REGISTERED FOR THE POSTEMERGENCE USE ON 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<sup>R</sup> 3EC HERBICIDE AS A BROADCAST POSTEMERGENCE SPRAY AT THE RATES LISTED BELOW.

AMOUNT OF HOELON<sup>R</sup> 3EC HERBICIDE PER ACRE (PINTS)<sup>1</sup>  
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) <sup>2</sup> ( <u>LOLIUM MULTIFLORUM</u> )	1-1/3	1-1/3	2.0	2-2/3	
BROADLEAF SIGNALGRASS (SUPPRESSION) ( <u>BRACHIARIA PLATYPHYLLA</u> )	2-2/3	<div style="border: 1px solid black; padding: 10px;"> <p>DO NOT APPLY</p> <p>REDUCED GRASSY WEED CONTROL WILL OCCUR</p> </div>			
CRABGRASS ( <u>L. LITARIA SANGUINALIS</u> )	2-2/3				
WITCHGRASS (SUPPRESSION) ( <u>PANICUM CAPILLARE</u> )	2-2/3				
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				2-2/3
YELLOW FOXTAIL (PIGEONGRASS) <sup>3</sup> ( <u>SETARIA LUTESCENS</u> )	}				
WILD OAT ( <u>AVENA FATUA</u> )	}				
ITCHGRASS (RAOULGRASS) ( <u>TRIBOELLIA EXALTATA</u> )	2.0 (1-24")				2-2/3 (24-36")
VOLUNTEER CORN ( <u>ZEA MAYS</u> )	2.0 TO 2-2/3				2-2/3

<sup>1</sup> WHEN CONTROLLING MIXED POPULATIONS OF GRASSY WEEDS, ALWAYS USE THE RATE THAT WILL CONTROL THE LEAST SUSCEPTIBLE SPECIES.  
<sup>2</sup> ANNUAL RYEGRASS MAY ALSO BE CONTROLLED PREEMERGENCE IN WINTER WHEAT. SEE APPROPRIATE RECOMMENDATION SECTION IN THIS LABELING.  
<sup>3</sup> FOR BEST CONTROL OF CRABGRASS AND YELLOW FOXTAIL, APPLICATION SHOULD BE MADE BEFORE THE SECOND LEAF FULLY EMERGES.

APPLY HOELON<sup>R</sup> 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.

#### DIRECTIONS FOR THE USE OF HOELON<sup>R</sup> 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, CLER, OR ALFALFA AS A COVER CROP. THESE COVER CROPS HAVE EXCELLENT TOLERANCE TO HOELON 3EC HERBICIDE. USE 2.0 PINTS TO 2-2/3 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 COMMERCIALY 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.

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#### 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: IMPERMEABLE RUBBER GLOVES (SUCH AS NEOPRENE OR PVC), 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.

IMPORTANT NOTICE: DISCLAIMER

READ "IMPORTANT NOTICE: DISCLAIMER" BEFORE BUYING OR USING. IF TERMS ARE NOT ACCEPTABLE, RETURN AT ONCE UNOPENED. HOECHST CELANESE CORPORATION WARRANTS ONLY THAT THE PRODUCT CONFIRMS 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 CELANESE CORPORATION AND USER ASSUMES THE RISK OF ANY SUCH USE. HOECHST CELANESE CORPORATION 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 CELANESE CORPORATION BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INDIRECT OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. THE AFOREGOING CONDITIONS OF SALE AND WARRANTY CAN BE VARIED ONLY BY AN AGREEMENT IN WRITING SIGNED BY A DULY AUTHORIZED REPRESENTATIVE OF HOECHST CELANESE CORPORATION.

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HOELON<sup>R</sup> 3EC HERBICIDE IS A REGISTERED TRADEMARK OF HOECHST AG.

BUCTRIL<sup>R</sup> HERBICIDE IS A REGISTERED TRADEMARK OF RHONE-POULENC INC.,  
AGROCHEMICAL DIVISION.

GLEAN<sup>R</sup> HERBICIDE IS A REGISTERED TRADEMARK OF E. I. DUPONT DENEMOURS AND  
COMPANY, INC.

HARMONY<sup>R</sup> AND HARMONY EXTRA<sup>R</sup> HERBICIDES ARE A REGISTERED TRADEMARK OF E. I. DUPONT  
DENEMOURS AND COMPANY, INC.

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**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.

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**STATEMENT OF PRACTICAL TREATMENT**

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°F.

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