

7969-186

03-04-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES,
AND TOXIC SUBSTANCES

Ms. Charlotte A. Sanson
BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

MAR 9 2009

Subject: Headline® Fungicide, Three Proposed Supplemental Labels
EPA Reg. No. 7969-186; Decision 401160
Your Submission date, September 18, 2008

Dear Ms. Sanson:

The three supplemental labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, have been reviewed and are acceptable. A stamped copy for each of the following Headline® Fungicide supplemental labels is enclosed for your records:

1. Use in barley at a 14-day PHI in the following states: AZ (north of I-10), Co, ID, MT (west of Rt 87/I-15), NV, NM, OR, TX (west of Rt. 283/377), UT, WA and WY (west of I-25/I-90). No changes from the Master Label were made.
2. Use in barley, oats rye, wheat and triticale to permit a lower application rate for control of certain early season diseases.
3. Infurrow use to aid in the control of Soilborne *Rhizoctonia* in corn, cotton, soybeans, and sugar beet. Additional row spacings were added (15, 20 and 22 inch).

Submit two copies of your final printed supplemental labeling before you release the product for shipment. Also submit a Master Label by 5/1/09 which incorporates these changes for the two supplemental labels that added changes. If you have any questions regarding this correspondence, contact John Bazuin of my staff by phone at 703 305-7381 or via email at bazuin.john@epa.gov or myself at 703 308-9443.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish
Product Manager Team 22
Fungicide Branch
Registration Division (7505P)

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The Chemical Company



For use in Barley, Oats, Rye, Wheat and Triticale

EPA Reg. No. 7969-186

Active Ingredient*:

pyraclostrobin: carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl] methoxy-, methyl ester	23.6%
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Other Ingredients**:	76.4%
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Total:	100.0%
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* Equivalent to 2.09 pounds of pyraclostrobin per gallon.
 ** Contains petroleum distillates.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Refer to the **Headline® fungicide** main label, EPA Reg. No. 7969-186, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Headline** container label and this supplemental label in possession at the time of pesticide application.

General Information

Headline provides optimum disease control when applied in a regularly scheduled protective fungicide program and used in a spray program that rotates fungicides with different modes of action.

Refer to the **Headline** main label for general resistance management information and to the **Crop-specific Requirements** and restrictions found in this label.

Application Information

Apply **Headline** according to the rate, timing and resistance management instructions in the **Crop-specific Requirements** in this label.

Headline may be applied by ground sprayer, by aerial equipment, or through sprinkler irrigation systems. Refer to the **Headline** main label for specific instructions on these methods.

Restrictions and Limitations

Headline is not for use in greenhouse or transplant production systems.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

No aerial application in New York State except as permitted under FIFRA Section 24(c), Special Local Need Registration.

**ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 9 2009**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
no restricted entry interval
pesticide
registered under EPA Reg. No. 7969-186**

Headline® fungicide Crop-specific Requirements					
Crop	Target Disease	Product Use Rate per Application	Maximum Number of Sequential Applications	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Barley	Black point (Kernel blight or Head mold) <i>(Cochliobolus sativus, Alternaria spp.)</i>	6 to 9 fl ozs* per acre	2	18 fl ozs per acre (0.29 lb ai/acre)	Apply no later than 50% head emergence (Feekes 10.3, Zadoks 55); 14 days in selected states**.
	Leaf rust <i>(Puccinia hordei, P. recondita)</i>				
	Net blotch <i>(pyrenophora teres)</i>				
	Powdery mildew <i>(Erysiphe graminis f. sp., hordei)</i>				
	Scald <i>(Rhynchosporium secalis)</i>				
	Septoria leaf and glume blotch <i>(Septoria spp., Stagonospora spp.)</i>				
	Spot blotch <i>(Cochliobolus sativus)</i>				
	Stem rust <i>(Puccinia graminis f. sp., tritici)</i>				
	Stripe rust <i>(Puccinia striiformis)</i>				
Tan spot (Yellow leaf spot) <i>(Pyrenophora trichostoma)</i>					

*For early season control of Tan spot, Septoria leaf and glume blotch, Net blotch, and Spot blotch when conditions favor disease development, apply 3 to 6 fl ozs per acre of **Headline** either in combination with a herbicide application or when conditions favor disease development. When the 3 to 6 fl ozs early season application rate is used, a second application of **Headline** may be required to protect the emerged flag leaf. Environmental conditions and disease pressure at the time of flag-leaf emergence should be used to determine the **Headline** rate for the second application. The rate ranges for different levels of these factors are outlined in the following table.

Level of Disease Pressure or Environmental Risk at Flag-leaf Emergence	Rate of Headline (fl ozs/Acre)
low	3 to 6
moderate to high	6 to 9

See Barley Crop-specific Requirements and Application Directions following. (continued)

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Headline® fungicide Crop-specific Requirements (continued)

Application Directions: For optimal disease control, begin applications of **Headline** prior to disease development. To maximize yields in cereals, it is important to protect the flag leaf. Apply **Headline** immediately after flag-leaf emergence for optimum results.

Headline does not control *Fusarium* head blight (head scab) or prevent the reductions in grain quality that can result from this disease. When head blight is a concern, growers should manage this disease with fungicides that are labeled for and effective in managing this disease, and with cultural practices like crop rotation and plowing to reduce crop residues that serve as an inoculum source.

Resistance Management: To limit the potential for development of resistance, **DO NOT** apply more than 0.29 lb ai pyraclostrobin (= 18 fl ozs **Headline**) per acre per season.

DO NOT make more than two (2) applications of **Headline** or other **Group 11** fungicides per season.

DO NOT harvest barley hay or feed green-chopped barley within 14 days of last application.

Barley may be harvested 14 days after the last application in the following states: **AZ (north of I-10), **CO, ID, MT** (west of Rt 87/I-15), **NV, NM, OR, TX** (west of Rt 283/377), **UT, WA, and WY** (west of I-25/I-90), as shown in the **Headline Use Area Map, 14-Day PHI in barley**.

Headline® fungicide Use Area Map
14-Day PHI in Barley



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Headline® fungicide Crop-specific Requirements (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Sequential Applications	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI) (days)
Oats	Crown rust (<i>Puccinia coronata</i>) Helminthosporium leaf spot (<i>Dreschlera avenae</i>) Leaf blotch (<i>Pyrenophora avenae</i>) Leaf rust (<i>Puccinia</i> spp.) Septoria blotch and Stem rot (<i>Septoria avenae</i> , <i>Phaeosphaeria avenaria</i> , <i>Stagnospora avenae</i>) Spot blotch (<i>Bipolaris</i> spp.) Stem rust (<i>Puccinia graminis</i>)	6 to 9 fl ozs* per acre	2	18 fl ozs per acre (0.29 lb ai/acre)	Apply no later than the beginning of flowering (Feeke's 10:5 Zadok's 59)

Application Directions: For optimal disease control, begin applications of **Headline** prior to disease development. To maximize yields in cereals, it is important to protect the flag leaf. Apply **Headline** immediately after flag-leaf emergence for optimum results.

Headline does not control *Fusarium* head blight (head scab) or prevent reductions in grain quality that can result from this disease. When head blight is a concern, growers should manage this disease with fungicides that are labeled for and effective in managing this disease, and with cultural practices like crop rotation and plowing to reduce crop residues that serve as an inoculum source.

Resistance Management: To limit the potential for development of resistance, **DO NOT** apply more than 0.29 lb ai pyraclostrobin (= 18 fl ozs **Headline**) per acre per season.

DO NOT harvest oat hay or feed green-chopped oats within 14 days of last application.

DO NOT make more than two (2) sequential applications of **Headline** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

*For early season control of Leaf blotch, Septoria blotch and Stem rot, and Spot blotch when conditions favor disease development, apply 3 to 6 fl ozs per acre of **Headline** either in combination with a herbicide application or when conditions favor disease development. When the 3 to 6 fl ozs early season application rate is used, a second application of **Headline** may be required to protect the emerged flag leaf. Environmental conditions and disease pressure at the time of flag-leaf emergence should be used to determine the **Headline** rate for the second application. The rate ranges for different levels of these factors are outlined in the following table.

Level of Disease Pressure or Environmental Risk at Flag-leaf Emergence	Rate of Headline (fl ozs/Acre)
low	3 to 6
moderate to high	6 to 9

Headline® fungicide Crop-specific Requirements (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Sequential Applications	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI) (days)
Rye	Leaf rust (<i>Puccinia recondita</i>) Leaf spot (<i>Pyrenophora</i> spp.) Powdery mildew (<i>Erysiphe graminis</i>) Septoria leaf and glume blotch (<i>Septoria</i> spp., <i>Stagonospora</i> spp.) Stem rust (<i>Puccinia graminis</i>) Stripe rust (<i>Puccinia striiformis</i>)	6 to 9 fl ozs* per acre	2	18 fl ozs per acre (0.29 lb ai/acre)	Apply no later than 50% head-emergence (Feekes 10.3, Zadok's 55)

Application Directions: For optimal disease control, begin applications of **Headline** prior to disease development. To maximize yields in cereals, it is important to protect the flag leaf. Apply **Headline** immediately after flag-leaf emergence for optimum results. **Headline** does not control *Fusarium* head blight (head scab) or prevent the reductions in grain quality that can result from this disease. When head blight is a concern, growers should manage this disease with fungicides that are labeled for and effective in managing this disease, and with cultural practices like crop rotation and plowing to reduce crop residues that serve as an inoculum source.

No livestock feeding restrictions.

Resistance Management: To limit the potential for development of resistance, **DO NOT** apply more than 0.29 lb ai pyraclostrobin (= 18 fl ozs **Headline**) per acre per season. **DO NOT** make more than two (2) applications of **Headline** or other **Group 11** fungicides per season.

*For early season control of Leaf spot and Septoria leaf and glume blotch when conditions favor disease development, apply 3 to 6 fl ozs per acre of **Headline** either in combination with a herbicide application or when conditions favor disease development. When the 3 to 6 fl ozs early season application rate is used, a second application of **Headline** may be required to protect the emerged flag leaf. Environmental conditions and disease pressure at the time of flag-leaf emergence should be used to determine the **Headline** rate for the second application. The rate ranges for different levels of these factors are outlined in the following table.

Level of Disease Pressure or Environmental Risk at Flag-leaf Emergence	Rate of Headline (fl ozs/Acre)
low	3 to 6
moderate to high	6 to 9

Headline® fungicide Crop-specific Requirements (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Sequential Foliar Applications	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Wheat Triticale	Black point (Kernel smudge) (<i>Alternaria</i> spp., <i>Helminthosporium</i> spp.) Leaf rust (<i>Puccinia triticina</i>) Powdery mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>) Septoria leaf and glume blotch (<i>Septoria</i> spp., <i>Stagonospora</i> spp.) Spot blotch (<i>Cochliobolus sativus</i>) Stem rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>) Stripe rust (<i>Puccinia striiformis</i> f. sp. <i>tritici</i>) Tan spot (Yellow leaf spot) (<i>Pyrenophora</i> spp.)	6 to 9 fl ozs* per acre	2	18 fl ozs per acre (0.29 lb ai/acre)	Apply no later than the beginning of flowering (Feekes 10.5, Zadok's 59)

Application Directions: For optimal disease control, begin applications of **Headline** prior to disease development. To maximize yields in cereals, it is important to protect the flag leaf. Apply **Headline** immediately after flag-leaf emergence for optimum results.

Headline does not control *Fusarium* head blight (head scab) or prevent the reductions in grain quality that can result from this disease. When head blight is a concern, growers should manage this disease with fungicides that are labeled for and effective in managing this disease, and with cultural practices like crop rotation and plowing to reduce crop residues that serve as an inoculum source.

Resistance Management: To limit the potential for development of resistance, **DO NOT** apply more than 0.29 lb ai pyraclostrobin (= 18 fl ozs **Headline**) per acre per season. **DO NOT** make more than 2 applications of **Headline** or other **Group 11** fungicides per season.

DO NOT harvest wheat hay or feed green-chopped wheat within 14 days after last application.

*For early season control of Tan spot, Septoria leaf and glume blotch, and Spot blotch when conditions favor disease development, apply 3 to 6 fl ozs per acre of **Headline** either in combination with a herbicide application or when conditions favor disease development. When the 3 to 6 fl ozs early season application rate is used, a second application of **Headline** may be required to protect the emerged flag leaf. Environmental conditions and disease pressure at the time of flag-leaf emergence should be used to determine the **Headline** rate for the second application. The rate ranges for different levels of these factors are outlined in the following table.

Level of Disease Pressure or Environmental Risk at Flag-leaf Emergence	Rate of Headline (fl ozs/Acre)
low	3 to 6
moderate to high	6 to 9

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

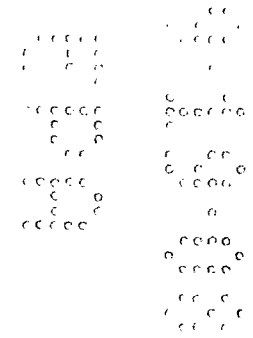
To the extent consistent with applicable law, BASF makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty.

To the extent consistent with applicable law, Buyer's exclusive remedy and BASF's exclusive liability, whether in contract, tort, negligence, strict liability, or otherwise, shall be limited to repayment of the purchase price of the product.

To the extent consistent with applicable law, BASF and the Seller disclaim any liability for consequential, special or indirect damages resulting from the use or handling of this product.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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007969-00186.20080918.NVA 2008-04-088-0147

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



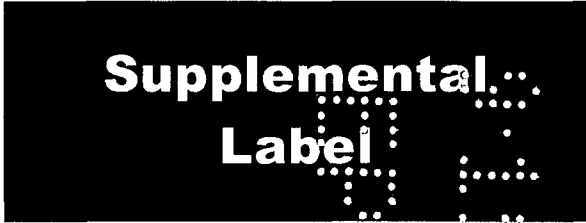
The Chemical Company



The Chemical Company

Headline[®]

fungicide



For Infurrow use to aid in the Control of Soilborne *Rhizoctonia* in Corn, Cotton, Soybean, and Sugar Beet

EPA Reg. No. 7969-186

Active Ingredient*:

pyraclostrobin: carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl] methoxy-, methyl ester 23.6%

Other Ingredients:** 76.4%

Total: 100.0%

*Equivalent to 2.09 pounds of pyraclostrobin per gallon.
**Contains petroleum distillates.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Refer to the **Headline[®] fungicide** container label, EPA Reg. No. 7969-186, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Headline** container label and this supplemental label in possession at the time of pesticide application.

The maximum product rate per season shown on the **Headline** container label for corn, cotton, soybean, and sugar beet includes the combination of infurrow and foliar uses.

General Information

Headline contributes to soilborne *Rhizoctonia solani* disease control when applied infurrow as a preventive application. The level of disease control may vary with disease pressure. Improved performance may result when **Headline** is used in combination with fungicides with different modes of action.

Restrictions and Limitations

Headline is not for use in greenhouse or transplant production systems.
Refer to the **Headline** container label for restrictions pertaining to resistance management practices.

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 9 2009
MAR 9 2009
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
no amount of this pesticide
registered and EPA Reg. No.

7969-186

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Directions for Headline® fungicide Infurrow Applications for Corn, Cotton, Soybean, and Sugar Beet Seedling Diseases

Rate Per 1000 row feet (fl oz product)	Product Rate per Acre (fl ozs)								
	15" rows	20" rows	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
0.1	3.5	/	/	/	/	/	/	/	/
0.2	7.0	5.2	4.7	3.5	3.3	3.2	3.0	/	/
0.3	10.5	7.8	7.1	5.2	5.0	4.8	4.5	4.3	4.0
0.4	see footnote ¹	10.4	9.5	6.9	6.7	6.4	6.0	5.7	5.4
0.5	see footnote ¹	see footnote ¹	11.8	8.7	8.4	8.0	7.5	7.1	6.7
0.6	see footnote ¹	see footnote ¹	see footnote ¹	10.4	10.0	9.6	9.0	8.5	8.1
0.7	see footnote ¹	see footnote ¹	see footnote ¹	see footnote ¹	11.7	11.2	10.5	10.0	9.4
0.8	see footnote ¹	see footnote ¹	see footnote ¹	see footnote ¹	see footnote ¹	see footnote ¹	12.0	11.4	10.8

Application Directions: Use 0.1 to 0.8 fl oz of **Headline** per 1000 feet of row. Refer to this chart to determine the rate per acre. Apply at planting as an infurrow application by directing the spray into the furrow before seed is covered. Use a minimum volume of application of 2.5 gallons of water per acre.

When *Rhizoctonia* seedling disease pressure conditions are expected to be severe or if the field has a history of seedling diseases, use **Headline** at a product rate per acre equivalent to 9 fl ozs or greater and/or tank mix with a fungicide having a different mode of action.

Adjust rate per 1000 row feet so that you **DO NOT** apply more than 12 fl ozs per acre of **Headline**.

¹ For 32- to 34-inch rows, use a maximum of 0.7 fl oz per 1000 row feet.
 For 30-inch rows, use a maximum of 0.6 fl oz per 1000 row feet.
 For 22-inch rows, use a maximum of 0.5 fl oz per 1000 row feet.
 For 20-inch rows, use a maximum of 0.4 fl oz per 1000 row feet.
 For 15-inch rows, use a maximum of 0.3 fl oz per 1000 row feet.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

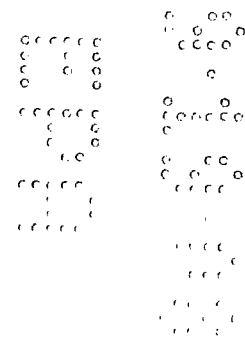
To the extent consistent with applicable law, BASF makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty.

To the extent consistent with applicable law, Buyer's exclusive remedy and BASF's exclusive liability, whether in contract, tort, negligence, strict liability, or otherwise, shall be limited to repayment of the purchase price of the product.

To the extent consistent with applicable law, BASF and the Seller disclaim any liability for consequential, special or indirect damages resulting from the use or handling of this product.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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Headline is a registered trademark of BASF.

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007969-00186.20080910.NVA 2008-04-088-0146
Supersedes: NVA 2007-04-088-0061
Based on: 2005-04-088-0235

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709





The Chemical Company

Headline[®]

fungicide

Supplemental Labeling

For use in Barley at a 14-day Preharvest Interval in the following states: AZ (north of I-10), CO, ID, MT (west of Rt 87/I-15), NV, NM, OR, TX (west of Rt 283/377), UT, WA, and WY (west of I-25/I-90).

EPA Reg. No. 7969-186

Active Ingredient:*

pyraclostrobin: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl] methoxy-, methyl ester) 23.6%

Other ingredients:** 76.4%

Total: 100.0%

* Equivalent to 2.09 pounds of pyraclostrobin per gallon.

** Contains petroleum distillates.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Refer to the **Headline[®] fungicide** main label, EPA Reg. No. 7969-186, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Headline** container label and this supplemental in possession at the time of pesticide application.

General Information

Headline provides optimum disease control when applied in a regularly scheduled protective fungicide program and used in a spray program that rotates fungicides with different modes of action. Refer to the **Headline** main label for general resistance management information and to the crop-specific use recommendations and restrictions found in this label.

Application Information

Apply **Headline** according to the rate, timing and resistance management instructions in the **Crop-Specific Recommendations** in this label.

Headline may be applied by ground sprayer, aerial equipment or through sprinkler irrigation systems. Refer to the **Headline** main label for specific instructions on these methods.

Restrictions and Limitations

Headline is not for use in greenhouse or transplant production systems.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

Note:

For the states listed above, the preharvest interval (PHI) of **14 days** shown on this supplemental labeling supersedes the PHI of "Apply no later than 50% head emergence (Feekes 10.3, Zadok's 55)" shown on the label affixed to the **Headline** container. All other states must follow the PHI on the **Headline** container label.

See page 3 for a map depicting the use area for above-listed states.

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

MAR 9 2009

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide
registered under EPA Reg. No.**

7969-186

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Headline® fungicide Crop-Specific Recommendations

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Sequential Applications	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Barley	Black point (Kernel blight or Head mold) (<i>Cochliobolus sativus</i> , <i>Alternaria</i> spp.) Leaf rust (<i>Puccinia hordei</i> , <i>P. recondita</i>) Net blotch (<i>pyrenophora teres</i>) Powdery mildew (<i>Erysiphe graminis</i> f. sp., <i>hordei</i>) Scald (<i>Rhynchosporium secalis</i>) Septoria leaf and glume blotch (<i>Septoria</i> spp., <i>Stagonospora</i> spp.) Spot blotch (<i>Cochliobolus sativus</i>) Stem rust (<i>Puccinia graminis</i> f. sp., <i>tritici</i>) Stripe rust (<i>Puccinia striiformis</i>) Tan spot (Yellow leaf spot) (<i>Pyrenophora trichostoma</i>)	6 to 9 fl oz per acre	2	18 fl oz per acre (0.29 lb ai/acre)	14 days

Application Directions: For optimal disease control, begin applications of **Headline** prior to disease development. To maximize yields in cereals, it is important to protect the flag leaf. Apply **Headline** immediately after flag leaf emergence for optimum results.

Headline does not control Fusarium head blight (head scab) or prevent the reductions in grain quality that can result from this disease. When head blight is a concern, growers should manage this disease with fungicides that are labeled for and effective in managing this disease, and with cultural practices like crop rotation and plowing to reduce crop residues that serve as an inoculum source.

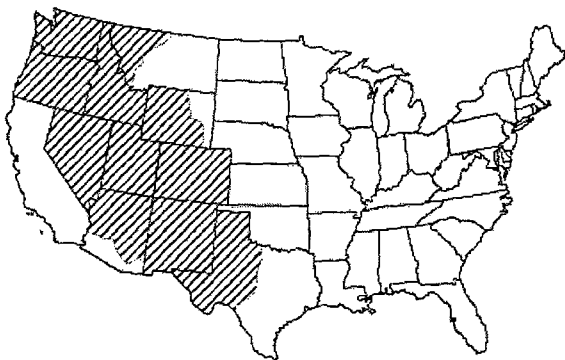
Resistance Management: To limit the potential for development of resistance, **DO NOT** apply more than 0.29 lb ai pyraclostrobin (= 18 fl oz **Headline**) per acre per season.

DO NOT make more than two (2) applications of **Headline** or other **Group 11** fungicides per season.

DO NOT harvest barley hay or feed green-chopped barley within 14 days of last application.

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Headline® fungicide Use Area Map
14-Day PHI in Barley



For use in Barley in the following states:
AZ (north of I-10), **CO, ID, MT** (west of Rt 87/I-15),
NV, NM, OR, TX (west of Rt 283/377), **UT, WA,**
and **WY** (west of I-25/I-90).

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") of the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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BASF Corporation
Agricultural Products
26 Davis Drive
Research Triangle Park, NC 27709



The Chemical Company