Supplemental Label

For weed control in spring and winter wheat from delayed preemergence and early postemergence applications

This supplemental label expires December 31, 2016, and must not be used or distributed after this date.

Active Ingredient:
pyroxasulfone: 3-[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1'H-pyrazol-4-y]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole .......................................................... 85.0%
Other Ingredients: .................................................................................................................. 15.0%
Total: ................................................................................................................................... 100.0%
Contains 0.85 pound of pyroxasulfone per pound formulated as a water-dispersible granule (WG)

EPA Reg. No. 7969-338

Directions For Use

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- The supplemental labeling and the entire Zidua® herbicide container label, EPA Reg. No. 7969-338, must be in possession of the user at the time of application.
- Read the label affixed to the container for Zidua before applying.
- Use of Zidua according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Zidua.

Crop Tolerance

Wheat is tolerant to Zidua when applied according to use directions in this label. However, some visual wheat response is possible when Zidua is applied to wheat under stressful conditions such as inadequate or excessive moisture, cool or hot temperatures, compacted soils, injury from other pesticides, disease or other pest damage, mechanical injury, nutrient imbalances, or other conditions known to cause plant stress. Wheat response is most often visible as stunting and/or discoloration of leaf tissue (e.g. chlorosis), but in its most severe form can result in stand loss. The greatest potential for wheat response occurs when Zidua concentrates in the crop row. Unacceptable wheat response may be caused by uneven application, soil clods or disturbances, an open/cracked seed furrow that allows herbicide to directly contact the seed, or a deep seed furrow that allows herbicide concentration after a rain/irrigation event during wheat germination.

Certain wheat varieties can be more sensitive to Zidua. Before applying to wheat, verify tolerance with your local seed company (supplier), university extension specialist (e.g. wheat breeder, weed scientist, county agent, etc.), or BASF representative.

Weed Control

Zidua is a selective rate-dependent residual herbicide for control or suppression of annual grass weeds and broadleaf weeds including biotypes resistant to ACCase inhibitors, ALS inhibitors, and glyphosate.

When applied as directed in wheat, Zidua will provide residual control or suppression of the weeds listed in the table following, and will also provide suppression of other weeds listed in the Zidua container label. For broad-spectrum weed control, a tank mix partner or a sequentially applied herbicide partner is needed. Refer to the Tank Mixes section of this label for additional information.

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

The Chemical Company
Weeds Controlled¹ ²
(only at the maximum application rate per soil texture; see Application Rates section following for specific rates)

| Bluegrass, annual   | Ryegrass, Italian   |
| Canarygrass        |                    |

Weeds Suppressed²

| Barley, hare     | Groundsel, common |
| Barnyardgrass   | Henbit            |
| Brome, downy    | Horseweed (Marestail) |
| Brome, Japanese | Kochia            |
| Buckwheat, wild | Lambsquarters, common |
| Carpetweed      | Mustard, wild     |
| Cheat           | Oats, wild        |
| Chickweed, common | Pigweed spp.    |
| Flixweed         | Ragweed, common   |
| Foxtail, giant  | Ryegrass, rigid   |
| Foxtail, green  | Shepherdspurse    |
| Foxtail, yellow |                  |

¹ Weeds such as annual bluegrass and Italian ryegrass have the ability to adapt to several different herbicide sites of action. Even though Zidua ¹ herbicide will control these species, some weed escapes are possible. Multiple herbicides with multiple different effective sites of action MUST be used in tank mixtures or sequentially to limit these weed escapes to prevent or delay the onset of herbicide-resistant weed biotypes.

² For control of these weeds, a tank mix partner or a sequentially applied herbicide partner is needed.

Application Information

Zidua can be applied delayed preemergence or early postemergence in fall-seeded or spring-seeded wheat for residual weed control.

Apply Zidua only to a uniform seedbed that is firm and free of clods, cracks, excess trash (previous crop residue), and weed growth. The seedbed MUST be prepared to ensure good seed row closure and soil coverage of the seed. Use high quality seed. Plant seed at least 1/2-inch deep to avoid crop injury.

The use of Zidua in wheat may result in temporary or sustained growth suppression and chlorosis if high rainfall or irrigation leads to extended periods of water-saturated soil during early seedling development. To reduce crop response, avoid applying Zidua if a long period of rain is expected before wheat emergence.

Herbical activity of Zidua may be reduced if trash from the previous crop covers more than 25% of the soil surface. Manage trash levels with combine straw shredders/spreaders, earlier burndown of emerged weeds, or light tillage.

Prolonged periods of dry weather following application of Zidua may reduce herbicidal effectiveness. When Zidua is not activated and weeds emerge, a labeled and effective postemergence herbicide in wheat may be needed to control weed escapes.

Zidua will not control germinated or emerged weeds, and should be applied with a tank mix partner or sequential application with a labeled burndown or postemergence wheat herbicide(s) for control of emerged weeds.

Application Timings

Zidua herbicide may be applied in a single application or in sequential applications relative to the growth stage of wheat.

Delayed Preemergence Surface Application
Apply Zidua as a broadcast spray to the soil surface following wheat planting when 80% of germinated wheat seeds have a shoot at least 1/2-inch long until wheat spiking.

Early Postemergence Application
Apply Zidua as a broadcast spray to wheat at spiking up to the fourth-tiller growth stage. Zidua will only suppress or control labeled weeds that germinate after the early postemergence application and rainfall/irrigation activation. Apply Zidua as early as possible after wheat emergence in order to prevent weed emergence.
Sequential Applications

Zidua® herbicide may be applied as a sequential or split application program where a delayed preemergence application is followed by an early postemergence application, or where multiple early postemergence applications are made. DO NOT apply more than a maximum cumulative amount of 2.5 ozs/A (0.133 lb ai/A of pyroxasulfone) per cropping season.

Application Rates

Apply Zidua alone, in tank mix, or sequentially in wheat at the residual rates in the table following.

<table>
<thead>
<tr>
<th>Application Timing</th>
<th>Zidua Use Rate by Soil Texture¹ (ozs/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coarse</td>
</tr>
<tr>
<td>Delayed Preemergence</td>
<td>0.7 to 1.0</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Postemergence</td>
<td>1.0 to 2.0</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Refer to Zidua container label for definition of soil-texture groups.

Tank Mixes

Delayed Preemergence. Zidua may tank mixed with one or more of, but not limited to, the following herbicide products for a broader spectrum of control and/or control of emerged weeds:

- Sharpen® powered by Kixor® herbicide
- glyphosate

NOTE: Applying Sharpen or glyphosate to emerged wheat will severely injure or kill the crop. DO NOT tank mix with Sharpen, glyphosate, or any other burndown herbicide if wheat has emerged (i.e. spiking or later).

Early Postemergence. Zidua may be tank mixed with one or more of, but not limited to, the following herbicide products for a broader spectrum of control and/or control of emerged weeds:

- Beyond® herbicide
  (for Clearfield® or Clearfield® Plus wheat only)
- Clarity® herbicide
- Prowl® H₂O herbicide
- metribuzin (winter wheat only)
- Axial® XL herbicide

Always follow the most restrictive label use directions when mixing herbicide products. Follow the adjuvant recommendation for the tank mix partner of Zidua.

Crop-specific Restrictions and Limitations

- DO NOT apply more than a maximum cumulative amount of 2.5 ozs/A of Zidua (0.133 lb ai/A of pyroxasulfone) per cropping season.
- DO NOT apply Zidua preplant surface, preplant incorporated, or preemergence in wheat.
- DO NOT apply Zidua to durum wheat.
- Wheat forage and hay can be fed or grazed 7 or more days after application.
- DO NOT seed wheat deeper than 1.5-inches before a delayed preemergence application.
- DO NOT apply Zidua to flooded fields or fully saturated soils.
- DO NOT irrigate fields after a delayed preemergence application until wheat spiking.
- DO NOT apply Zidua preplant incorporated in wheat.
- DO NOT apply delayed preemergence to broadcast-seeded wheat.
## 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, EXEMPLARY, 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.

---

*Beyond, Clarity, Clearfield, Kixor, Prowl, Sharpen, and Zidua* are registered trademarks of BASF.

*Axial* is a registered trademark of a Syngenta Group Company.

© 2013 BASF Corporation
All rights reserved.

007969-00338.20130828b NVA 2013-04-388-0162
Based on: NVA 2013-04-388-0157

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

The Chemical Company