Supplemental Label

Zidua® Herbicide

For weed control in spring and winter wheat from preplant surface and preemergence applications

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

Active Ingredient:
pyroxasufone: 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl][methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole ................................................................. 85.0%
Other Ingredients: ............................................................................................................ 15.0%
Total: .................................................................................................................................... 100.0%
Contains 0.85 pound of pyroxasufone 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

Zidua applied preplant surface or preemergence surface can cause wheat injury. 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), Zidua injury will be intensified. 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 and yield reduction. 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
<table>
<thead>
<tr>
<th>Weeds Controlled&lt;sup&gt;1,2&lt;/sup&gt; (only at the maximum application rate per soil texture; see Application Rates section following for specific rates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass, annual</td>
</tr>
<tr>
<td>Canarygrass</td>
</tr>
<tr>
<td><strong>Weeds Suppressed&lt;sup&gt;2&lt;/sup&gt;</strong></td>
</tr>
<tr>
<td>Barley, hare</td>
</tr>
<tr>
<td>Barnyardgrass</td>
</tr>
<tr>
<td>Brome, downy</td>
</tr>
<tr>
<td>Brome, Japanese</td>
</tr>
<tr>
<td>Buckwheat, wild</td>
</tr>
<tr>
<td>Carpetweed</td>
</tr>
<tr>
<td>Cheat</td>
</tr>
<tr>
<td>Chickweed, common</td>
</tr>
<tr>
<td>Flixweed</td>
</tr>
<tr>
<td>Foxtail, giant</td>
</tr>
<tr>
<td>Foxtail, green</td>
</tr>
<tr>
<td>Foxtail, yellow</td>
</tr>
</tbody>
</table>

1 Weeds such as annual bluegrass and Italian ryegrass have the ability to adapt to several different herbicide sites of action. Even though Zidua<sup>®</sup> herbicide will control these species, some weed escapes are possible. Multiple herbicides with multiple different effective sites of action MUST be used in tank mixes 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.

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**Application Information**

Zidua can be applied preplant surface or preemergence 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.

Herbicidal 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.

**Preplant Surface Application**

Apply Zidua as a broadcast spray to the soil surface within 14 days before planting on all soil types.

**Preemergence Surface Application**

Apply Zidua after planting but before wheat spiking as a broadcast spray to the soil surface with uniform seedbed that is firm and free of clods. Ensure good seed row closure and soil coverage to avoid contact with Zidua.
Sequential Applications
Zidua® herbicide may be applied as a sequential or split application program where a preplant or preemergence application is followed by an early postemergence application (refer to Zidua container label or other supplemental labeling for postemergence use directions). 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>Preplant Surface or Preemergence</td>
<td>0.5 to 1.25</td>
</tr>
</tbody>
</table>

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

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 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 after a preplant application or before a preemergence application.
- **DO NOT** apply Zidua to flooded fields or fully saturated soils.
- **DO NOT** apply preemergence if 1/4 inch or more rain is expected within 48 hours after application.
- **DO NOT** irrigate fields after a preemergence application until wheat spiking.
- **DO NOT** apply Zidua preplant incorporated in wheat.
- **DO NOT** apply preplant or preemergence to broadcast-seeded wheat.

Tank Mixes
Preplant or 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:
- Sharpener® powered by Kixor® herbicide
- glyphosate

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

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