

7969-278

2/26/2014

1/4



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

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Craig D. Kleppe, Ph.D.
BASF Corporation
26 Davis Drive, PO Box 13528
Research Triangle Park, NC 27709

FEB 26 2014

Subject: Label amendment to add post-emergent applications to rice paddies that may also be used in aquaculture of fish and crayfish
Product Name: Sharpen Powered by KIXOR Herbicide
EPA Reg. No: 7969-278
Petition No(s): 2F8129 & 2F8139
Decision Number(s): 472866; 472867; 473447; 473448; 473449

Dear Dr. Kleppe:

The labeling referred to above, submitted in connection with registration in accordance with FIFRA section 3(C)(5), as amended, is acceptable, provided that you submit and/or cite all data required for reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products released for shipment after eighteen (18) months from the date of this letter must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have questions or concerns regarding this letter, please contact Beth Benbow at (703) 347-8072 or email at benbow.bethany@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague".

Kathryn V. Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Supplemental Label



For broadleaf weed control in rice production

This supplemental label expires March 1, 2017, and must not be used or distributed after this date.

Active Ingredient:

saflufenacil: N'-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,6-dihydro-1(2H)-pyrimidinyl)benzoyl]-N-isopropyl-N-methylsulfamide 29.74%

Other Ingredients: 70.26%

Total: 100.00%

Contains 2.85 pounds active ingredient saflufenacil per gallon formulated as a water-based suspension concentrate

EPA Reg. No. 7969-278

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 **Sharpen**® herbicide container label, EPA Reg. No. 7969-278, must be in possession of the user at the time of application.
- Read the label affixed to the container for **Sharpen** before applying.
- Use of **Sharpen** according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for **Sharpen**.

Use Information

Sharpen may be applied by ground or air in rice production. Rice in this label refers to drilled or dry-seeded, and water-seeded rice.

Sharpen may be applied preplant, preemergence, or postemergence in rice for broadleaf weed control (refer to **Table 1** and **Table 2** on the **Sharpen** container label for lists of weeds controlled; refer to the following table on this label for additional rice-specific weeds).

Before applying **Sharpen** to rice, verify the selectivity of **Sharpen** on your variety or hybrid with your local seed company (supplier) and/or BASF representative to help avoid potential injury to sensitive varieties or hybrids.

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Application Information

Application Rates and Timings

Preplant and Preemergence Burndown plus Residual Weed Control

Apply **Sharpen** as a broadcast burndown spray preplant through preemergence (0 to 3 days after rice planting) at 1.0 to 2.0 fl ozs/A. An adjuvant system including MSO and AMS (refer to **Additives** section on the product container label for details) is required for optimum broadleaf burndown activity. Best product performance is obtained when broadleaf weeds are small and actively growing. Thorough spray coverage of emerged weeds is required; higher spray volumes may be needed for best performance.

For additional residual broadleaf weed control, **Sharpen** can be applied preplant through preemergence at rates of 3.0 to 4.0 fl ozs/A.

Postemergence Weed Control

Apply **Sharpen** for postemergence control of small and actively growing emerged broadleaf weeds at 1.0 to 2.0 fl ozs/A. Postemergence applications can be made before or after flooding when rice has reached the 2-leaf stage up to internode elongation. **DO NOT** apply **Sharpen** to rice in the spike or 1-leaf stage.

ACCEPTED
FEB 26 2014
Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered for use as a herbicide.
EPA Reg. No. 7969-278



Additional Weeds Controlled in Rice by Postemergence Applications of Sharpen® herbicide

Common Name	Scientific Name	Maximum Height (inches)
Dayflower	<i>Commelina</i> spp.	3
Ducksalad	<i>Heteranthera limesa</i>	3
Eclipta	<i>Eclipta alba</i>	4
Flat sedge	<i>Cyperus iria</i>	3
Jointvetch, Indian	<i>Aeschynomene indica</i>	3
Jointvetch, Northern	<i>Aeschynomene virginica</i>	3
Redstem	<i>Ammannia</i> spp.	4
Sesbania	<i>Sesbania exaltata</i>	8
Texasweed	<i>Caperonia palustris</i>	3
Water hyssop	<i>Bacopa eisenii</i>	3
Woolly croton	<i>Croton capitatus</i>	3

Adjuvant Requirements for Postemergence-specific Applications in Rice. For optimum postemergence control of emerged broadleaf weeds in rice, the following adjuvants are required with **Sharpen**:

- Use a crop oil concentrate (COC) at a rate of 1 pint/A to 1 quart/A.
- **DO NOT** use methylated seed oil (MSO), or severe crop injury may occur.
- **DO NOT** use a nonionic surfactant (NIS) as a substitute for COC, or poor performance on broadleaf weeds will occur.

Rice Crop Response. Temporary leaf burn and/or speckling may occur after postemergence applications; new growth and development is unaffected with rapid recovery under good growing conditions. Severe leaf burn and/or stand loss may occur under stressful growing conditions (e.g. low soil fertility, seedling/foiar disease, extreme hot or cold weather, high soil pH, high soil salt concentration, or drought).

Sequential Applications

Sequential applications of **Sharpen** may be made in rice, but **DO NOT** apply more than a maximum cumulative amount of 6.0 fl ozs/A of **Sharpen** per cropping season.

Separate all sequential applications by at least 14 days.

Preplant or preemergence burndown applications may be applied as part of a sequential application program where the first application is made preplant or preemergence, and the sequential application(s) is

made postemergence. Postemergence applications may be sequentially made before or after flooding.

For postemergence applications, **DO NOT** apply more than a maximum cumulative amount of 2.0 fl ozs/A of **Sharpen** per cropping season.

Crop-specific Restrictions and Limitations

- **DO NOT** apply more than a maximum cumulative amount of 6.0 fl ozs/A of **Sharpen** per cropping season.
- **Sharpen** may be applied to rice fields used for crustacean (including crayfish) production and commercial fish production.
- **DO NOT** apply **Sharpen** to rice fields that will also be used for mollusk production during the treatment year.
- **DO NOT** release flood water from treated fields for 7 days after **Sharpen** application.
- Aerial application of **Sharpen** to rice grown in California is prohibited.
- Refer to the product container label for crop rotation intervals.

Tank Mixtures

Broad-spectrum burndown control of grasses and/or additional broadleaf weeds will require a tank mix with another herbicide. Read and follow the applicable restrictions and limitations and directions for use on the other product label. The most restrictive labeling applies to tank mixes. **Sharpen** may be tank mixed or applied sequentially with, but not limited to:

- **Beyond®** herbicide
- **Clearpath®** herbicide
- **Facet® L** herbicide
- **Newpath®** herbicide
- **Prowl® H₂O** herbicide
- glyphosate (e.g. **Roundup®** herbicide)

Tank mixtures with products formulated as emulsifiable concentrates (EC) may enhance the crop injury potential of **Sharpen** in postemergence applications.

4/4

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.

1108

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The **X** symbol is a trademark of BASF.

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The Chemical Company