



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 28, 2015

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

Subject: Amendment to Add 2 Supplemental Labels for a New Use in Alfalfa:  
1) For broadleaf weed control in dormant-season alfalfa  
2) For broadleaf weed control in alfalfa in-season between cuttings  
Product Name: SHARPEN Powered by KIXOR Herbicide  
EPA Registration Number: 7969-278  
Application Date: March 7, 2014  
Decision Number: 488727  
Associated with EPA Petition Number: 4F8256

Dear Dr. Kleppe:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval is only for a supplemental label that is an addendum to the master label. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

This supplemental labeling contains some new and/or revised uses and/or directions which may be additional to the uses and/or directions found on the label on or attached to the container, but this supplemental labeling does not by itself constitute the complete set of use directions. The complete set of use directions is set forth on the container label as combined with this supplemental labeling.

A stamped copy of your labeling is enclosed for your records. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling.

*Continued on Page 2 of 2*

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EPA Reg. No. 7969-278  
Decision No. 488727

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Beth Benbow by phone at 703-347-8072, or via email at [Benbow.bethany@epa.gov](mailto:Benbow.bethany@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Dan C. Kenny", with a long horizontal flourish extending to the right.

Daniel C. Kenny, Chief  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

ACCEPTED

05/28/2015

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7969-278

Group 14 Herbicide

## Supplemental Label

# Sharpen®

## Powered by Kixor® Herbicide

### For broadleaf weed control in alfalfa in season between cuttings

This supplemental label expires April 30, 2018, 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 for postemergence broadleaf weed control (refer to **Table 1** on the product container label for list of weeds controlled) in alfalfa production.

Before applying **Sharpen** to alfalfa, verify varietal dormancy rating and the selectivity of **Sharpen** on your alfalfa variety with your local seed company (supplier) to help avoid potential injury to sensitive varieties.

#### Application Timings and Rates

**Sharpen** may only be applied to established stands of alfalfa (defined as planted in the fall or spring which have gone through a first cutting/mowing) grown for forage and/or hay production.

**Sharpen** may cause transitory injury to alfalfa (leaf necrosis) under certain conditions, but new growth is normal and yield is typically not reduced. Disease, extremely cold weather, drought, extensive frost heaving, low or high pH, salinity, and other environmental pressures may weaken alfalfa stands and make the crop more susceptible to herbicidal injury.

#### In-season Postemergence Applications

Apply **Sharpen** at 1.0 fl oz/A as a broadcast postemergence spray to control emerged broadleaf weeds in season between alfalfa cuttings. Make in-season applications to alfalfa stubble immediately after cutting but before 2 inches of alfalfa regrowth and before weeds reach the maximum size listed in **Table 1** on the product container label. An adjuvant system is required for optimum broadleaf burndown activity (refer to **Additives** section on product container label for details).

## Sequential Applications in Alfalfa

**Sharpen**<sup>®</sup> herbicide may be applied as a sequential or split program where the initial application(s) are made during the dormant period (see EPA-approved **Sharpen** supplemental label entitled “**For broadleaf weed control in dormant-season alfalfa**”, NVA 2014-04-322-0057) and the subsequent application(s) are made postemergence in season. **DO NOT** apply more than a maximum cumulative amount of 3.0 fl ozs/A of **Sharpen** per cropping season.

## Mixed Stands of Alfalfa and Perennial Cool-season Forage Grasses

**In-season postemergence applications.** Apply **Sharpen** at 1.0 fl oz/A as a broadcast postemergence spray to control emerged broadleaf weeds in season (i.e. actively growing mixed stand between cuttings). Make in-season applications to alfalfa and grass stubble immediately after cutting but before 2 inches of alfalfa regrowth and before weeds reach the maximum size listed in **Table 1** on the product container label. An adjuvant system is required for optimum broadleaf burndown activity (refer to **Additives** section on product container label for details).

## Crop-specific Restrictions and Limitations

- **DO NOT** apply more than 1.0 fl oz/A of **Sharpen** in season.
- **DO NOT** apply more than a maximum cumulative amount of 3.0 fl ozs/A of **Sharpen** per cropping season.
- **DO NOT** apply **Sharpen** to alfalfa grown for seed production.
- **Preharvest Interval (PHI)** for alfalfa forage or hay when **Sharpen** is applied in season between cuttings: 21 days.
- **Preharvest Interval (PHI)** for alfalfa forage or hay in mixed-stand alfalfa/perennial cool-season forage grasses: 21 days.
- **Pregrazing Interval (PGI)** for alfalfa forage or hay in mixed-stand alfalfa/perennial cool-season forage grasses: 21 days.
- **DO NOT** apply **Sharpen** to mixed stands of alfalfa and other forage legumes. **Sharpen** is not registered for use on other forage legumes.
- Refer to the product container label for crop rotation intervals.

## Tank Mixes

Broad-spectrum control of grass weeds 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 other herbicide products, such as but not limited to:

- **Poast**<sup>®</sup> herbicide\*
- **Prowl**<sup>®</sup> H<sub>2</sub>O herbicide
- **Pursuit**<sup>®</sup> herbicide\*
- **Raptor**<sup>®</sup> herbicide\*

\* Only in pure alfalfa stands. Not registered for use in cool-season forage grasses.

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



We create chemistry

**ACCEPTED**

05/28/2015

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Group 14 Herbicide

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Other Ingredients:..... 70.26%

Total: ..... 100.00%

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### EPA Reg. No. 7969-278

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#### Use Information

**Sharpen** may be applied for postemergence broadleaf weed control (refer to **Table 1** on the product container label for list of weeds controlled) in alfalfa production.

Before applying **Sharpen** to alfalfa, verify varietal dormancy rating and the selectivity of **Sharpen** on your alfalfa variety with your local seed company (supplier) to help avoid potential injury to sensitive varieties.

#### Application Timings and Rates

**Sharpen** may only be applied to established stands of alfalfa (defined as planted in the fall or spring which have gone through a first cutting/mowing) grown for forage and/or hay production.

**Sharpen** may cause transitory injury to alfalfa (leaf necrosis) under certain conditions, but new growth is normal and yield is typically not reduced. Disease, extremely cold weather, drought, extensive frost heaving, low or high pH, salinity, and other environmental pressures may weaken alfalfa stands and make the crop more susceptible to herbicidal injury.

#### Dormant-season Application for Burndown Weed Control

Apply **Sharpen** at 1.0 to 2.0 fl ozs/A as a broadcast burndown spray to emerged broadleaf weeds in the dormant season [i.e. when alfalfa is not actively growing in the fall (postharvest), or during the winter dormancy period]. An adjuvant system is required for optimum broadleaf burndown activity (refer to **Additives** section on product container label for details).

For optimum postemergence control of emerged broadleaf weeds, apply **Sharpen** in a minimum of 10 gallons of water per acre.

Sequential applications of **Sharpen® herbicide** may be made within the dormant season as long as the maximum cumulative amount does not exceed 2.0 fl ozs/A of **Sharpen**. Separate sequential dormant-season burndown applications by at least 14 days.

Timing of **Sharpen** applications in the dormant season depends on the geographical region where alfalfa is grown. Refer to the following United States map to identify the correct region and states within the region.

In **Region A**, apply **Sharpen** at least 90 days before harvest or yield reductions of the first cutting may occur.

In **Region B**, apply **Sharpen** at least 75 days before harvest or yield reductions of the first cutting may occur.

Within **Region A**, only apply **Sharpen** in Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington, Wyoming, and in the California counties of Del Norte, Lassen, Plumas, Modoc, Nevada, Shasta, Sierra, and Siskiyou.

Within **Region B**, only apply **Sharpen** in Arizona, New Mexico, Oklahoma, Texas, and the remaining counties in California.



## Mixed Stands of Alfalfa and Perennial Cool-season Forage Grasses

**Dormant-season application for burndown weed control.** Apply **Sharpen** at 1.0 to 2.0 fl ozs/A as a broadcast burndown spray to emerged broadleaf weeds in the dormant season [i.e. when mixed stand is not actively growing in the fall (postharvest), or during the winter dormancy period]. An adjuvant system is required for optimum broadleaf burndown activity (refer to **Additives** section on product container label for details).

Sequential applications of **Sharpen** may be made within the dormant season as long as the maximum cumulative amount does not exceed 2.0 fl ozs/A of

**Sharpen**. Separate sequential dormant-season burndown applications by at least 14 days.

Timing of **Sharpen** application in the dormant season in **Region A** and **Region B** also applies to mixed stands of alfalfa and perennial cool-season forage grasses.

**Not for use in California in mixed stands of alfalfa and perennial cool-season forage grasses.**

## Crop-specific Restrictions and Limitations

- **DO NOT** apply more than a maximum cumulative amount of 2.0 fl ozs/A of **Sharpen** per cropping season.
- **DO NOT** apply **Sharpen** to alfalfa grown for seed production.
- **Preharvest Interval (PHI)** for alfalfa forage or hay: 28 days
- **Preharvest Interval (PHI)** for alfalfa forage or hay in mixed-stand alfalfa/perennial cool-season forage grasses: 28 days.
- **Pregrazing Interval (PGI)** for alfalfa forage or hay in mixed-stand alfalfa/perennial cool-season forage grasses: 28 days.
- **DO NOT** apply **Sharpen** to mixed stands of alfalfa with other forage legumes. **Sharpen** is not registered for use on other forage legumes.
- Refer to the product container label for crop rotation intervals.

## Tank Mixes

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- **Poast® herbicide\***
- **Prowl® H<sub>2</sub>O herbicide**
- **Pursuit® herbicide\***
- **Raptor® herbicide\***

\* Only in pure alfalfa stands. Not registered for use in perennial cool-season forage grasses.

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