

# Sharpen®

Powered by **Kixor®** Herbicide

## Sharpen® Herbicide for Spring Burndown

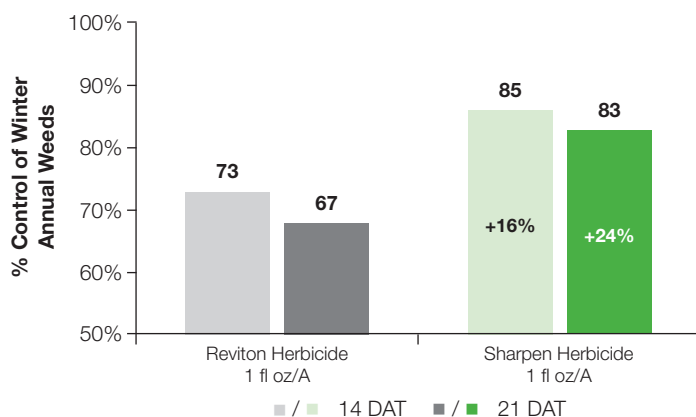
### Benefits of Sharpen Herbicide

- Powered by Kixor® herbicide Technology
  - Control of the toughest broadleaf weeds
  - Excellent tool for managing winter annuals including glyphosate-resistant marestail
- Speed of Control
  - Three to five times faster burndown than 2, 4-D ester or glyphosate
- Flexible
  - Broad-spectrum broadleaf weed control
  - Plant any crop the following spring
  - Compatible with residual herbicide partners

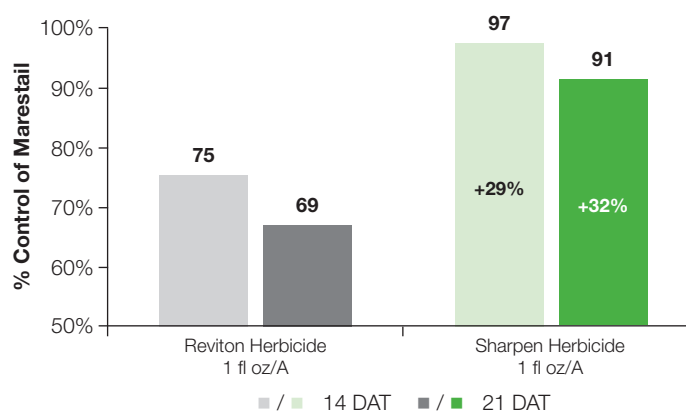


**Control tough annual weeds with Sharpen herbicide in the spring**

### Sharpen Herbicide Performance Versus Reviton® Herbicide



Data Source: From 18 site locations: GA (3), IL (4), IN (3), MO, NC (2), OH (2), PA (3) over 3 years – 2021–2023. From internal and external sponsored trials from protocol series TK1-A Biology trials and 2021 - Technical Service protocol series D54. Marestail was 3 to 6 inches tall at time of application and all treatments had 1% MSO + AMS at 8.5 lbs/100 gals and were applied with 10 to 15 GPA. Carolina Geranium, Common Chickweed, Dandelion, Field Pennycress, Marestail/horseweed, Purple Cudweed, Purple Deadnettle, Rough Fleabane, Shepherd's Purse.



Data Source: From 12 site locations: GA, IL (2), IN (3), MO, NC, NE, OH (2), PA over 3 years – 2021–2023. From internal and external sponsored trials from protocol series TK1-A Biology trials and 2021–2022 - Technical Service protocol series D54. Marestail was 3 to 6 inches tall at time of application and all treatments had 1% MSO + AMS at 8.5 lbs/100 gals and were applied with 10 to 15 GPA.

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**Technical Information Bulletin**

## Benefits of a Spring Burndown with Sharpen® Herbicide

- Manage winter annuals, including marestalk, in the spring when they are smaller and easier to control
- Controls early emerging small seeded broadleaves such as Palmer and waterhemp relieving pressure on 2, 4-D and Liberty® herbicide
- An effective spring burndown results in more timely planting and effective early post knockdown application

### 37 Days After Application



**Reviton Herbicide 1 fl oz  
+ MSO (1% v/v) and AMS  
(8.5 lbs/100 gals)**



**Sharpen Herbicide 1 fl oz  
+ MSO (1% v/v) and AMS  
(8.5 lbs/100 gals)**

BASF Photos. Penn State Agronomy Research Farm, Rock Springs PA. John Wallace and Dwight Lingenfelter. Application A: 4/26/21. Pictures taken: 37 DAA 6/9/21.

**Sharpen herbicide makes spring burndown simple.**

## Best Use Recommendations

### Application Requirements

- Adjuvants: MSO (1 gal/100 gals or minimum 1 pint/A) + AMS (8.5 –17 lbs/100 gal)
- 15 GPA carrier volume for optimum coverage
- Rainfast in 1 hour
- Weeds must be actively growing; multiple nights below freezing will reduce burndown activity
- For residual control of Italian ryegrass and small seeded broadleaves, tank mix\* with Zidua® SC herbicide at 3.25 fl oz/A

\*Before mixing components, always conduct a compatibility jar test. Always consult respective product labels for specific mixing instructions. The most restrictive label applies.

### Application Recommendations

#### Standard:

Sharpen Herbicide (1 fl oz/A)	+	glyphosate
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#### Residual:

Sharpen Herbicide (1 fl oz/A)	+	Zidua SC Herbicide + glyphosate
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#### Enhanced:

Sharpen Herbicide (1 fl oz/A)	+	glyphosate + 2, 4-D
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**Ask your retailer about Sharpen herbicide today. To learn more, visit [www.sharpenherbicide.com](http://www.sharpenherbicide.com).**

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