

Sharpen®

Powered by **Kixor®** Herbicide

Sharpen® Herbicide Offers Safe, Easy Handling for Applicators...

Benefits of Sharpen Herbicide

Powered by Kixor® herbicide Technology

- ✓ Not a Restricted Use Pesticide
- ✓ No closed-system handling required
- ✓ No mandatory applicator training or certification needed
- ✓ Low use rate for ease of use and less handling (1–2 fl oz/A)
- ✓ Residual weed control (rate dependent)
- ✓ REI – 12 hours
- ✓ Standard Personal Protective Equipment (PPE)
- ✓ Proven performance on tough weeds like marehail (pg. 2)



Paraquat Herbicides

- ✗ Restricted Use Pesticide
- ✗ Closed-system handling required
- ✗ Requires special applicator training and certification
 - Certified training and exam must be passed and repeated every 3 years to mix, load, apply, or handle paraquat¹
- ✗ High use rate (20-40 fl oz/A)
- ✗ No residual weed control
- ✗ REI – 48 hours
- ✗ Strict Personal Protective Equipment (PPE) required

Sharpen herbicide: Do more acres with less!

Application Example (1,000 acres going to soybeans)

Sharpen Herbicide (1 fl oz)

1,000 acres @ 1 fl oz/A = 1,000 fl oz ÷ 128 fl oz/gallon = 7.8 total gallons

Gramoxone® SL 3.0 Herbicide (20 fl oz)

1,000 acres @ 20 fl oz/A = 20,000 fl oz ÷ 128 fl oz/gallon = 156 total gallons

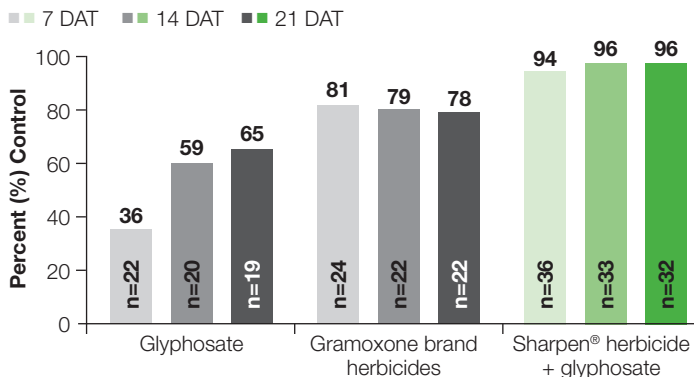
1: Source: Pennsylvania State University - Mandatory Paraquat Training

We create chemistry

Technical Information Bulletin

With Proven Performance on Tough Weeds...

Multi-Year Marestail Control Summary



2018-2024 BASF sponsored replicated research trials. N = number of locations per treatment. Primary weed: marestail. All treatments included AMS (8.5 lbs/100 gal) + MSO (1% v/v) and were applied at 15 GPA. Treatment rates: glyphosate (21-32 fl oz), Gramoxone brand herbicides (32-48 fl oz), Sharpen herbicide (1 fl oz) + glyphosate (21-32 fl oz).



Untreated

Gramoxone SL 3.0 herbicide

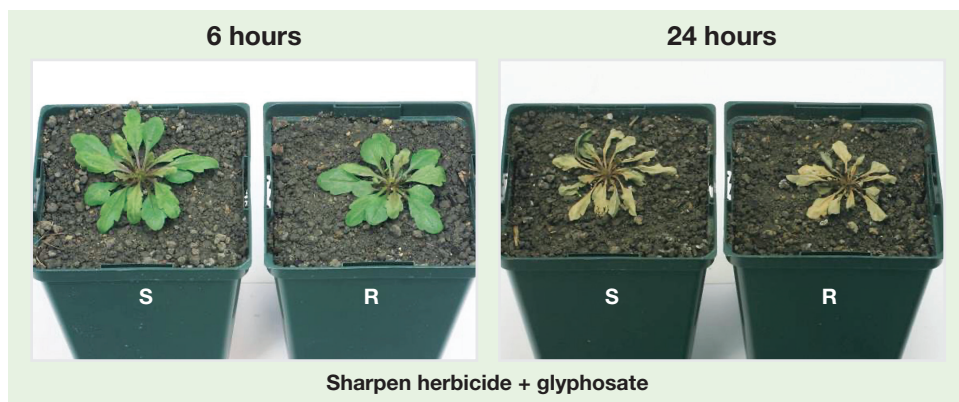
Sharpen herbicide + glyphosate

2026 BASF sponsored trial. Primary weeds: marestail and curly dock. Treatments: Gramoxone SL 3.0 herbicide (48 fl oz) + AMS + NIS, Sharpen herbicide (1 fl oz) + glyphosate (30 fl oz) + AMS + MSO applied at 15 GPA. Photos taken 10 DAT by Greg Stapleton, BASF Technical Service Rep – TN.

...and Glyphosate-Resistant Biotypes



Untreated



Sharpen herbicide + glyphosate

2008 BASF greenhouse replicated research trial. Primary weed: glyphosate-resistant marestail. All treatments included AMS (8.5 lbs/100 gal) + MSO (1% v/v) and were applied at 15 GPA. Treatment rates: Sharpen herbicide (1 fl oz) + glyphosate (32 fl oz).

BASF
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Sharpen®
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