



TopLine™

Florasulam & MCPA Ester

Herbicide – Broadleaf Weed Control

Controls a wide spectrum of broadleaf weeds with excellent wild buckwheat, cleavers and chickweed control with multiple modes of action in wheat, barley and oat crops

Active ingredients: Florasulam and MCPA ester

Chemistry group: Group 2 (florasulam) and Group 4 (MCPA ester)

How it works: The Group 2 herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids required for plant growth. The Group 4 herbicide disrupts normal plant growth regulation resulting in death of susceptible plants.

Registered crops:

- Barley
- Oat
- Spring wheat (including durum)

Weeds controlled:

1 to 4 leaf stage:

- | | | |
|----------------------------|--------------------|---------------------------------|
| • Ball mustard | • Lamb's-quarters | • Smartweed |
| • Burdock | • Redroot pigweed | • Stinkweed |
| • Chickweed, common | • Russian pigweed | • Sunflower (annual) |
| • Cleavers | • Prickly lettuce | • Volunteer canola ² |
| • Cow cockle | • Ragweed | • Wild buckwheat |
| • Flixweed | • Shepherd's-purse | • Wild mustard |
| • Hemp-nettle ¹ | | |

Suppressed:

- | | |
|-------------------------------|-----------------------------|
| • Annual sow-thistle | • Plantain ⁴ |
| • Canada thistle ¹ | • Perennial sow thistle |
| • Dandelion ^{1,3} | • Stork's-bill ¹ |

¹ For heavy infestations, add 47 mL/acre of MCPA ester 600 for improved control

² Including all herbicide-tolerant varieties

³ Seedlings and overwintered rosettes less than 15 cm

⁴ Top growth control only

Crop staging: Expanded 2 leaf up to the 6 leaf stage

Application rates and packaging:

- 40mL florasulam/ac + 230mL MCPA ester /ac, or 40 acres/case
- 1 x 1.6L florasulam jug + 1 x 9.33L MCPA ester jug/case

Water volume: Ground: 40 L/ac

Rainfastness: 2 hours





Registered and supported tank mixes:

Wheat and barley:

- Assert®
- Axial®

Wheat only:

- Everest®
- Simplicity™

Mixing instructions:

1. After filling the sprayer tank half full, and with agitation running, add required amount of florasulam, followed by the required amount of MCPA ester
2. Fill tank with remaining water
3. Do not add a surfactant

Crop rotations: Wheat, barley, oats, canola and peas may be grown the year following an application

Pre-harvest interval: 60 days

Grazing restriction:

- Do not allow lactating dairy animals to graze treated crops or cut for feed or hay within 7 days of application
- Withdraw meat animals from treated feed 3 days prior to marketing

Storage:

- Store in dry, heated area
- If frozen, bring to room temperature and agitate before use

Quick tips:

- Well suited for dark brown, black, and grey soil zones where cleavers, hemp-nettle, wild buckwheat, and volunteer canola are main concerns

