

# Smoulder®

Powered by **Kixor®** Herbicide

**Effective control of broadleaf weeds in a pre-seed application to start the season with cleaner fields.**

- Post-emergence burndown of emerged weeds and residual pre-emergence control of secondary flushes of volunteer canola prior to seeding wheat and barley
- Control of tough winter annual and perennial weeds like narrow-leaved hawk's beard, dandelion and Canada thistle
- Burndown control of resistant broadleaf weeds, including resistant biotypes of kochia (Group 2, 4 and 9)

## Active ingredients

Metsulfuron-methyl – Group 2  
Saflufenacil – Group 14

## Formulation

Water dispersible granules

## One case contains

907 g jug of Smoulder® herbicide  
2 x 8.1 L jugs of Merge® adjuvant

## Storage

Requires heated storage.

**Extended residual control of Roundup Ready® canola, 35 DAT**



Heat® LQ herbicide (80 ac/jug rate)



Smoulder (80 ac/jug rate)

Glyphosate (450 g ae/ha) and Merge (0.5 L/ha) included with both treatments.

Source: BASF Small Plot Trials, Lethbridge, AB, 2019

## Crops

Barley  
Fall rye  
Oats  
Triticale  
Wheat (incl. durum, spring and winter)  
Post-harvest

## Staging

pre-seed

## Weeds controlled<sup>1</sup>

### Broadleaves

Canada fleabane  
Canada thistle<sup>1</sup>  
Cleavers  
Dandelion<sup>1</sup>  
Flixweed<sup>1</sup>  
Kochia<sup>2</sup>  
Lamb's quarters  
Narrow-leaved hawk's beard  
Redroot pigweed  
Round-leaved mallow  
Stinkweed  
Volunteer canola<sup>3</sup>  
Wild buckwheat  
Wild mustard

## Staging

8 leaf (except where indicated)

(15 cm)  
(15 cm)  
(4 whorl stage)  
(15 cm maximum)  
(15 cm)  
(8 cm)

## Application rates

**One case of Smoulder will treat 80 acres.**

Barley and wheat 11 g/ac (28 g/ha)  
Post-harvest<sup>4</sup> 11 g/ac (28 g/ha)

### All applications

Merge 200 to 400 ml/ac (0.5 to 1 L/ha)

### Water volume

Ground application 20 to 40 L/ac (5 to 10 gal/ac)

<sup>1</sup> When applied with glyphosate. It is recommended that Smoulder only be used when tank mixed with glyphosate.

<sup>2</sup> Including biotypes resistant to Group 2, 4 and 9.

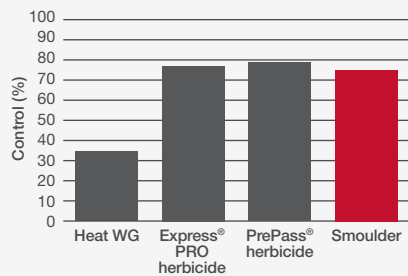
<sup>3</sup> Provides control of secondary flushes (including Roundup Ready® and LibertyLink®) in addition to burndown control of volunteer canola (all types).

<sup>4</sup> Post-harvest application is only to be used prior to seeding wheat, barley and oats.

**BASF**

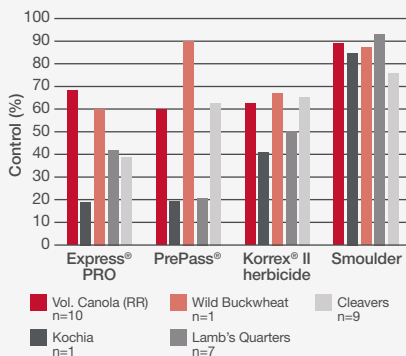
We create chemistry

## Residual volunteer canola control, 22-50 DAT



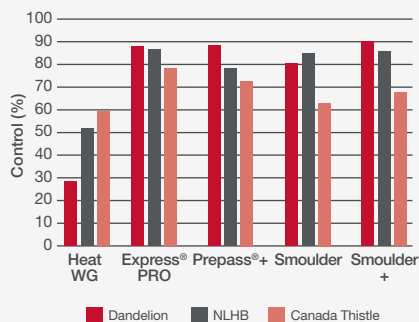
Source: BASF Small Plot Trials, 2016-2020, n>11

## Enhanced annual burndown performance, 11-19 DAT



All treatments applied without glyphosate.  
Source: BASF Small Plot Trials, 2020-2021

## Perennial/winter annual weed control, 28-36 DAT



+ indicates glyphosate added (450 g ae/ha)  
Source: BASF Small Plot Trials, 2017-2020, n=4

## For more information:

Call **AgSolutions** Customer Care at 1-877-371-BASF (2273)

Visit [agsolutions.ca](http://agsolutions.ca)

## Mixing order

1. Use a 50 mesh filter screen and fill clean spray tank 1/2 full of water. Start agitation system.
2. Add the required amount of Smoulder and continue agitation until completely dissolved and product is fully dispersed.
3. Add in glyphosate.
4. Add the required amount of Merge.
5. Continue agitation while adding the remaining amount of water to fill the tank.
6. Continue to agitate or run the by-pass system.
7. After any break in sprayer operation, agitate thoroughly before spraying again.

## Sprayer cleanout instructions

1. Immediately after spraying, completely drain the spray tank.
2. First rinse: Fill tank 1/10 full of water; rinse spray tank for 15 minutes; flush through booms and hoses. Remove all end caps or open ball valves and flush solution through boom ends. Drain tank completely.
3. Second rinse: Fill tank with clean water. Add a commercial grade tank cleaner or 1 L of household ammonia (minimum 3% ammonia) per 100 L of water and agitate and flush booms. Agitate for 15 minutes. Remove end caps or opening ball valves to flush booms and hoses after allowing cleaning solution to stand in sprayer tank and booms for several hours or overnight. Drain tank after flushing boom and hoses. Clean nozzles and screens separately with a cleaning agent or an ammonia solution.
4. Third rinse: Rinse tank with clean water and flush through boom and hoses. Remove all end caps or open ball valves and flush solution through boom ends. Drain tank.

## Application tips

### Restricted entry interval – 12 hours.

Do not use on soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.

Do not apply during periods of dead calm or gusty winds.

### Pre-harvest interval

60 days when used as a pre-seed application.

### Grazing

Wheat and barley forage may be used as feed (hay or silage) or grazed 30 or more days after application.

### Follow crops

#### 24 hours after pre-seed application

Barley, fall rye, oats, triticale, wheat (durum, spring and winter)

#### 11 months after application

Canola (all types), imidazolinone-tolerant chickpeas, faba beans, field corn, flax<sup>5</sup>,

**Clearfield®** lentils, peas, soybeans

#### Following season after post-harvest application

Fall rye, oats, spring barley, triticale, wheat (spring or durum)

<sup>5</sup> Flax may only be seeded 11 months after application in Black and Dark Brown soil zones. In the Brown soil zone, flax may be seeded 22 months after application.

### Tank mixes

Glyphosate only.

Contact your local BASF **AgSolutions®** Grower or Retail Representative or call **AgSolutions** Customer Care at 1-877-371-BASF (2273) for additional information on supported tank mixes.

### Always read and follow label directions.

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