

# Certitude herbicide

## technology sheet

Delivers exceptional pre-seed weed control of herbicide-resistant kochia and volunteer canola and helps improve sustainability by being the first Group 27 herbicide for canola production.

- The first Group 27 herbicide developed for pre-seed use for canola production
- Consistent control with both contact and systemic activity

### Active ingredients

Bromoxynil – Group 6  
Topramezone – Group 27

### Formulation

Certitude® herbicide A – Suspension concentrate  
Certitude herbicide B – Emulsifiable concentrate

### One case contains

291 ml jug of Certitude A  
9.71 L jug of Certitude B  
8.1 L jug of Merge® adjuvant

### Storage

Requires heated storage.

### Crops

Canola

### Staging

pre-seed

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

#### Broadleaves

Chickweed  
Cleavers  
Cow cockle<sup>2</sup>  
Flixweed  
Hemp-nettle  
Kochia<sup>3</sup>  
Lady's thumb  
Lamb's quarters  
Narrow-leaved hawk's beard  
Redroot pigweed  
Russian thistle  
Stinkweed<sup>4</sup>  
Volunteer canola  
Volunteer flax  
Wild buckwheat  
Wild mustard<sup>2</sup>

### Staging

up to 4 leaf (except where indicated)

(up to 10 cm in height)

(up to 15 cm in height)

(cotyledon to 6 leaf)

#### Grasses

Barnyard grass  
Downy brome  
Green foxtail  
Volunteer barley  
Volunteer wheat  
Wild oats

### Volunteer canola control with Certitude herbicide vs. competition



Conquer® II



Certitude

Source: BASF Small Plot Trials, 2019, 14 Days After Treatment

<sup>1</sup> When applied with glyphosate (1 REL of glyphosate recommended).

<sup>2</sup> Under normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.

<sup>3</sup> Including all resistant biotypes.

<sup>4</sup> Including triazine-resistant biotypes.

**BASF**

We create chemistry

### Kochia control with Certitude herbicide vs. competition



Conquer



Certitude

Source: BASF Small Plot Trials, 2019, 14 Days After Treatment

### Application rates

**One case of Certitude herbicide will treat 40 acres.**

Canola	Certitude A	7 ml/ac (18 ml/ha)
	Certitude B	243 ml/ac (0.6 L/ha)
	Merge	202 ml/ac (0.5 L/ha)

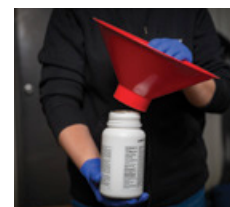
### Water volume

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

### Mixing in Chem Handlers with the Certitude Handling Tool

This new funnel tool lets you pour and rinse the Certitude Part A container directly in the chem handler. Here's how to use it:

1. Affix the funnel tool to the Certitude A container.
2. Position the funnel and Certitude A container above the center knife system on the chem handler.
3. Add Certitude A component and continue to agitate until visibly dispersed.
4. Run water for a controlled rinse of the Certitude A container.
5. **Important: Do not discard the funnel. It can be used for future Certitude mixing or for affixing to other containers for chem handler rinsing.**



### Mixing order

1. Always start with a clean sprayer. Refer to previously applied product labels for specific cleaning instructions.
2. Fill the clean spray tank 1/2 full of clean water and start agitation.
3. Add Certitude A and continue to agitate until visibly dispersed.
4. Add Certitude B and continue to agitate until mixed.
5. Add glyphosate.
6. Add Merge adjuvant.
7. Continue agitating while adding the remaining amount of water.

### Application tips

**Restricted entry interval** – 24 hours.

Avoid application when heavy rain is forecast.

Should the product freeze, agitate or mix contents well before use.

Increase water volume with moderate to high weed infestation for better coverage.

### Pre-harvest interval

There is no required pre-harvest interval between a pre-seed application of Certitude and the harvest of canola.

### Follow crops

#### 4 months after application

Winter wheat

#### 1 year after application

Alfalfa, barley, canola, field corn, field peas, lentils, navy (white) beans, peas, potatoes, soybeans, spring wheat

### Tank mixes

Glyphosate only.

Contact **AgSolutions®** Customer Care or your local BASF **AgSolutions** Grower or Retail Representative for additional information on supported tank mixes.

### Always read and follow label directions.

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### For more information:

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

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