

# Centurion herbicide

## technology sheet

Post-emergent control of the toughest grassy weeds in canola, flax and pulses.

- Wide window of application
- Tank-mix flexibility for enhanced weed control
- No follow-crop restrictions
- Complements Liberty® herbicide for enhanced control of grassy weeds

### Active ingredient

Clethodim – Group 1

### Formulation

Emulsifiable concentrate

### One case contains

3 L jug of Centurion® herbicide  
9 L jug of Amigo® adjuvant

### Storage

Heated storage not required.  
Not affected by freezing.

### Effective control of grassy weeds with Centurion



Centurion + Amigo (60 ac/case + 0.5% v/v)



ARROW ALL IN™ (60 ac/case)

Source: BASF, 2019

### Crops

Brown mustard  
Canola  
Chickpeas  
Dry beans  
Field peas  
Flax  
Lentils  
Potatoes  
Seedling alfalfa  
Soybeans  
Sunflowers  
Yellow mustard

### Staging<sup>1</sup>

post-emergence

### Weeds controlled

#### Grasses

Barnyard grass  
Downy brome grass<sup>2</sup>  
Japanese brome grass<sup>2</sup>  
Fall panicum  
Foxtail barley<sup>2</sup>  
Green foxtail  
Large crabgrass  
Persian darnel  
Proso millet  
Quackgrass<sup>3,4</sup>  
Smooth crabgrass  
Volunteer barley  
Volunteer canary seed  
Volunteer corn  
Volunteer oats  
Volunteer wheat  
Wild oats  
Witchgrass  
Yellow foxtail

### Staging

2 to 6 leaf (except where indicated)

(before tillering)

(before tillering)

(1 to 4 leaf)

(6 to 15 cm in height)

<sup>1</sup> See label for specific crop applications

<sup>2</sup> When tank mixed with Liberty herbicide.

<sup>3</sup> Apply at 154 ml/ac (380 ml/ha) for season-long control.

<sup>4</sup> Suppressed at 77 ml/ac (190 ml/ha). Follow-up with a fall application of glyphosate for clean fields next season.

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## Application rates

**Centurion, used alone, can be applied at the following rates with the exception of chickpeas and dry beans which have a maximum application rate of 40 ac./case (77 ml/ac). If applied in a tank mix with another product, consult the label for specific rates.**

- |                           |  |
|---------------------------|--|
| 20 ac./case or 154 ml/ac. | For control of all the major grass weeds with season-long control of quackgrass (mix with Amigo surfactant at 1.0% v/v)        |
| 40 ac./case or 77 ml/ac.  | For control of all the major grass weeds, except quackgrass (mix with Amigo surfactant at 0.5% v/v)                            |
| 60 ac./case or 50 ml/ac.  | For control of green and yellow foxtail, wild oats and volunteer cereals (wheat, oats and barley) (mix with Amigo at 0.5% v/v) |

## Water volume<sup>5</sup>

Ground application	22 L/ac. (6 gal/ac.) minimum
Aerial application	11.3 L/ac. (3 gal/ac.) minimum

<sup>5</sup> For tank mixing, follow recommendations of tank-mix partners.

## Liberty and Centurion tank mix tips

**Centurion tank mixed with Liberty can optimize control of grassy weeds in your InVigor<sup>®</sup> canola.**

- For foxtail barley, downy and Japanese brome control, use the **minimum** rate of Centurion at the 40 ac./case with Liberty at 1.35 L/ac. or 1.62 L/ac.
- For high populations of volunteer barley in your InVigor canola, use 20, 40 or 60 ac./case Centurion with Liberty at 1.35 L/ac. or 1.62 L/ac. for systemic and contact activity

## Mixing order

1. Ensure the spray tank is clean before use.
2. Fill the spray tank 1/2 full of water and start agitation.
3. **If tank mixing with Liberty herbicide:** add Amigo<sup>6</sup>, then add Liberty, agitate moderately, then add Centurion, in sequential order.
4. **If tank mixing with Liberty and Facet<sup>®</sup> L herbicide:** add Amigo<sup>6</sup>, then add Liberty, agitate moderately, then add Facet L, followed by Centurion, in sequential order.
5. Continue agitation while adding the remaining amount of water.<sup>7</sup>

<sup>6</sup> Merge<sup>®</sup> adjuvant can be used in place of Amigo. The two adjuvants cannot be mixed together. <sup>7</sup> Agitate moderately, as over-agitation may cause foaming.

Centurion can be antagonized by high levels of bicarbonates in water (300 mg/L is of concern and 500 mg/L or higher will cause issues). The simple remedy is to mix AMS 1.00% v/v.

## Tank mixes<sup>8</sup>

**Herbicides for LibertyLink<sup>®</sup> canola:** Liberty

**Herbicide tank mix for LibertyLink canola:** Centurion + Liberty + Facet L

<sup>8</sup> See label for other crops.

## Application tips

**Rainfastness** – 1 hour.<sup>9</sup>

<sup>9</sup> Rainfastness is limited by its tank-mix partners—for example, if tank mixed with Liberty or Facet L, this time becomes 4 or 6 hours, respectively.

## Pre-harvest interval<sup>10</sup>

60 days after application for brown mustard, canola, chickpeas, dry beans, flax, lentils, potatoes and yellow mustard.  
75 days after application for field peas and soybeans.

<sup>10</sup> For seedling alfalfa and sunflowers, see label for details.

Contact **AgSolutions<sup>®</sup>** Customer Care or your local BASF Sales Representative for additional information on supported tank mixes.

**For more information:** Call **AgSolutions** Customer Care at 1-877-371-BASF (2273), or visit [agsolutions.ca](http://agsolutions.ca).

## Always read and follow label directions.

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