

# Heat LQ herbicide technology sheet

pre-harvest

## Faster harvest. Better weed control.

- Easy-to-use liquid formulation for fast dry down of crops and broadleaf weeds
- Improved crop uniformity and harvestability
- Tank mixed with glyphosate, for fast broadleaf weed dry down and cleaner fields next season
- Facilitates straight cutting canola

### Active ingredient

Saflufenacil – Group 14

### Formulation

Water-based suspension concentrate

### One case contains

1.73 L jug of Heat® LQ herbicide  
2 x 8.1 L jugs of Merge® adjuvant

Also available as a tote (4 x 10.79 L Heat LQ and 400 L Merge)

### Storage

Protect from freezing.  
Store in cool, ventilated area.

### Crops

#### Harvest aid

Canola (all types)  
Chickpeas

Dry common beans<sup>2</sup>,  
soybeans

Field peas  
Red lentils<sup>3</sup>

Sunflowers<sup>4</sup>

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

Apply when 75% of seeds have changed colour. Apply when majority of plants are mature with only the upper part remaining green. Seed moisture is 30% or less. Majority of Desi type seeds are yellow/brown, and Kabuli type seeds are tan/white.

Apply when stems are green to brown, pods are mature (yellow, brown) and 80 to 90% of leaves have dropped.

Apply when majority of pods are brown (70 to 80%). Apply when bottom 15% of pods are mature and brown with ripened seeds. The bottom pods should rattle when shaken.

Apply when the backs of the heads and bracts are turning yellow, and seed moisture is 20 to 30%.

### Pre-harvest weed management

Barley<sup>5</sup> (including feed varieties), triticale, wheat (spring, durum, winter)

Hard dough stage with less than 30% moisture. A thumbnail impression remains on seed.

Canola, 16 days after an application



Glyphosate only

Heat LQ + glyphosate + Merge

Source: AgSolutions® Performance Trials, Swan River, MB, 2015

### Use of Heat LQ in seed production

For seed production fields, Heat LQ herbicide should be used as a standalone product only. BASF and third party research have shown no decrease in seed germination from an application of Heat LQ.

### Maximum Residue Limits

Please note: **Heat LQ can be used for pre-harvest applications on barley, canola, chickpeas, dry common beans, field peas, red lentils, soybeans, sunflowers, triticale, and wheat for the 2018 application season.**

At the time of printing (2018), BASF remains in the final stages of establishing import tolerances (maximum residue limits (MRLs)) for flax and mustard for markets around the world. While establishing MRLs for key export markets is progressing, the European Food Safety Authority has not yet completed their review. Because these crops are heavily exported, and some exports are made to the EU, **BASF does not recommend the use of Heat LQ as a harvest aid on flax and mustard for the 2018 application season.**

<sup>1</sup> Heat LQ herbicide must be applied after physiological maturity (less than 30% seed moisture).

<sup>2</sup> When tank mixed with glyphosate, consult glyphosate label or your BASF Sales Representative for information regarding use on specific varieties of dry common beans.

<sup>3</sup> BASF supports the use of Heat LQ for pre-harvest for red lentils, however we are still in the process of aligning the Maximum Residue Limit (MRL) in the European Union with other trade jurisdictions. NOTE: Heat LQ is supported for pre-harvest use on red lentil varieties only. DO NOT apply Heat LQ pre-harvest to green lentils. Please check with your grain buyer prior to the pre-harvest application of Heat LQ in red lentils.

<sup>4</sup> Glyphosate is not registered for pre-harvest use in sunflowers. For sunflowers, use Heat LQ as a standalone product only.

<sup>5</sup> BASF supports the use of Heat LQ herbicide for pre-harvest on feed barley only.

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## Application rates

**One case of Heat LQ herbicide will treat 30 to 40 acres (depending on rate) tank mixed with glyphosate or 30 acres standalone. One tote treats 730 to 1,000 acres (depending on rate) tank mixed with glyphosate or 730 acres standalone.**

Heat LQ tank mixed with glyphosate rate	43 to 59 ml/ac (106 to 146 ml/ha)
Glyphosate <sup>6</sup> (360 g ae/L)	1.0 L/ac (2.5 L/ha)
Merge adjuvant <sup>7</sup>	200 to 400 ml/ac (0.5 to 1 L/ha)

(Heat LQ should always be tank mixed with glyphosate in canola and cereals.)

(BASF recommends using Merge at the higher rate (400 ml/ac) when tank-mixed with glyphosate. Use both Merge jugs included in the case when applying Heat LQ at 40 acres per case. Use all Merge in the tote when applying at 1,000 acres per tote.)

Heat LQ standalone rate	59 ml/ac (146 ml/ha)
Merge adjuvant <sup>7</sup>	400 ml/ac (1 L/ha)

## Water volume

Ground application tank mixed with glyphosate rate	40 L/ac (10 gal/ac) minimum
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(BASF recommends using higher water volumes for best results, specifically on canola.)

Ground application standalone rate	80 L/ac (20 gal/ac) minimum
Aerial application <sup>8</sup>	20 L/ac (5 gal/ac)

<sup>6</sup> Glyphosate is not included in the case. <sup>7</sup> Merge adjuvant is required and is included with Heat LQ herbicide. Use all Merge included in the case. <sup>8</sup> Heat LQ is registered for aerial applications. Some glyphosate formulations are also registered for aerial applications; therefore Heat LQ plus glyphosate can be applied through aerial applications when both products have aerial registrations.

## Mixing order

1. Fill clean spray tank 1/2 full of clean water and start agitation.
2. Add the correct amount of Heat LQ herbicide and continue to agitate until mixed.
3. If tank mix is being applied, add the correct amount of glyphosate while continuing agitation.
4. Add the correct amount of Merge adjuvant to the tank last.
5. Continue agitation while adding the remaining amount of water.
6. Continue agitation or run the by-pass system.

## Application tips

**Rainfastness** – Heat LQ is extremely rainfast and is only limited by glyphosate.

Follow the glyphosate manufacturer's recommendation for rainfast guidelines.

## Pre-harvest interval

2 days after application for chickpeas and dry common beans.

3 days after application for barley, canola, field peas, red lentils, soybeans, triticale and wheat.

7 days after application for sunflowers.

## Follow crops

**In the spring following a fall application.**

Barley (spring, malt, winter)	Chickpeas	Lentils	Soybeans
Canary seed	Corn (field, sweet)	Mustard	Wheat (spring incl. <b>Clearfield</b>
Canola (all types incl. <b>Clearfield</b> ® canola)	Field peas	Oats	wheat, winter, durum)
	Flax		

## Tank mixes

**Herbicide:** Glyphosate

Note: When tank mixed with glyphosate, consult glyphosate label for more information including pre-harvest interval and staging.

Contact **AgSolutions** Customer Care or your BASF Sales Representative for more information on supported tank mixes.

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

**Always read and follow label directions.**

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