

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

Canola (all types)
Chickpeas

Dry common beans²,
soybeans

Field peas
Red lentils³

Sunflowers⁴

Staging¹

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.

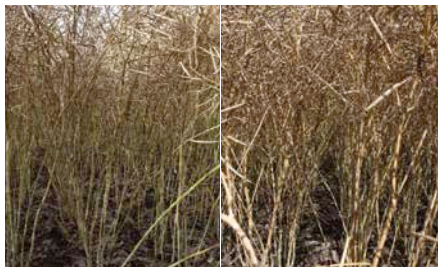
Apply when stems are green to brown, pods are mature (yellow, brown) and 80 to 90% of leaves have dropped.

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%.

Canola, 16 days after an application



Glyphosate only

Heat LQ + glyphosate
+ Merge

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

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

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

³ 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.

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

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 canola, chickpeas, dry common beans, field peas, red lentils, soybeans and sunflowers for the 2017 application season.**

At time of printing (2017), BASF remains in the final stages of establishing import tolerances (maximum residue limits (MRLs)) for flax, mustard, wheat, barley, and triticale 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 for pre-harvest on flax, mustard, wheat, barley, and triticale for the 2017 application season.**

 **BASF**

We create chemistry

Application rates

One case of Heat LQ herbicide will treat 40 acres tank mixed with glyphosate or 30 acres standalone. One tote treats 1,000 acres 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 ⁵ (360 g ae/L)	1.0 L/ac (2.5 L/ha)
Merge adjuvant ⁶	200 to 400 ml/ac (0.5 to 1 L/ha)

(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 ⁶	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 ⁷	20 L/ac (5 gal/ac)

⁵ Glyphosate is not included in the case. ⁶ Merge adjuvant is required and is included with Heat LQ herbicide. Use all Merge included in the case. ⁷ 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 canola, field peas, red lentils and soybeans.

7 days after application for sunflowers.

Follow crops

In the spring following a fall application.

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

Tank mixes

Herbicide: Glyphosate

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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