Heat LQ herbicide technology sheet

The ultimate pre-seed/pre-emergent burndown in a new, easy-to-use liquid formulation.

- Rainfast and quickly absorbed for fast, complete weed control even under cool conditions
- Heat® LQ herbicide complements and improves your glyphosate application
- Broadleaf weed control in as few as 3 to 5 days\(^1\)
- Group 14 chemistry for control of Group 2- and glyphosate-resistant weeds

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
- Barley
- Canary seed
- Chickpeas (kabuli)
- Corn (field, sweet)
- Field peas
- Lentils
- Tame oats
- Soybeans
- Wheat (spring, winter, durum)

Weeds controlled

<table>
<thead>
<tr>
<th>Broadleafs</th>
<th>Staging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada fleabane(^2)</td>
<td>8 leaf</td>
</tr>
<tr>
<td>Cleavers(^3)</td>
<td>(except where indicated)</td>
</tr>
<tr>
<td>Dandelion(^4)</td>
<td>(4 whorls)</td>
</tr>
<tr>
<td>Flixweed</td>
<td>(15 cm height)</td>
</tr>
<tr>
<td>Kochia(^2)</td>
<td>(15 cm height)</td>
</tr>
<tr>
<td>Lady's thumb(^5)</td>
<td>(6 leaf)</td>
</tr>
<tr>
<td>Lamb’s quarters</td>
<td></td>
</tr>
<tr>
<td>Narrow-leaved hawk’s beard</td>
<td>(8 cm height)</td>
</tr>
<tr>
<td>Perennial sow thistle(^5,6)</td>
<td></td>
</tr>
<tr>
<td>Prickly lettuce(^5,6)</td>
<td>(9 leaf)</td>
</tr>
<tr>
<td>Ragweed (common, giant)(^5)</td>
<td></td>
</tr>
<tr>
<td>Redroot pigweed(^5)</td>
<td></td>
</tr>
<tr>
<td>Round-leaved mallow</td>
<td></td>
</tr>
<tr>
<td>Shepherd’s-purse(^5)</td>
<td>(full flower)</td>
</tr>
<tr>
<td>Stinkweed(^3)</td>
<td></td>
</tr>
<tr>
<td>Volunteer canola(^3,7)</td>
<td></td>
</tr>
<tr>
<td>Wild buckwheat(^3)</td>
<td></td>
</tr>
<tr>
<td>Wild mustard(^3)</td>
<td></td>
</tr>
</tbody>
</table>

Staging
- pre-seed and pre-emergence
- (before ground crack)

Weeds controlled

<table>
<thead>
<tr>
<th>Crops</th>
<th>Staging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemfallow</td>
<td>apply to actively growing weeds</td>
</tr>
</tbody>
</table>

1 Depending on growing conditions.
2 Includes Group 2-resistant and glyphosate-resistant biotypes.
3 For suppression of secondary flushes, use higher application rate of 59 ml/ac (146 ml/ha).
4 Top growth burndown control only of perennial plants, control of spring germinating plants.
5 Top growth burndown control only.
6 For rapid burndown control, use a higher application rate of 29.5 ml/ac (73 ml/ha).
7 All herbicide-tolerant canola systems including glyphosate-tolerant canola.

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**Application rates**

One case of Heat LQ herbicide will treat 30 to 80 acres, depending on rate. One tote treats 2,000 acres for lentils and soybeans and 730 to 2,000 acres for all other crops.

Barley, canary seed, chickpeas (kabuli), corn (field, sweet\(^8\)), field peas, tame oats, wheat (spring, winter, durum) 21.5 to 59 ml/ac (53 to 146 ml/ha)

Lentils\(^9\) 21.5 ml/ac (53 ml/ha)

Soybeans\(^10\) 21.5 to 29.5 ml/ac (53 to 73 ml/ha)

Chewfallow 21.5 to 59 ml/ac (53 to 146 ml/ha)

**All applications**

Glyphosate\(^11\) (360 g ae/L) 0.5 to 1 L/ac (1.25 to 2.5 L/ha)

Merge adjuvant\(^12\) 200 to 400 ml/ac (0.5 to 1 L/ha)

(At the higher Heat LQ application rates (30 or 40 acres per case), BASF recommends using Merge at the higher rate (400 ml/ac). Use both Merge jugs included in the case regardless of the Heat LQ rate. Use all Merge in the tote when applying at 2,000 acres per tote.)

**Water volume**

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

\(^8\) Some sweet corn hybrids may be sensitive to saflufenacil and injury may occur.  
\(^9\) Do not use rates higher than 21.5 ml/ac (53 ml/ha) or injury could result. See label for details.  
\(^10\) Do not use rates higher than 29.5 ml/ac (73 ml/ha) or crop injury may result. See label for details. Some soybeans cultivars may be more sensitive to saflufenacil and injury may occur.  
\(^11\) Glyphosate (required for optimum activity) is not included in the case.  
\(^12\) Merge adjuvant is required and is included with Heat LQ herbicide.

**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. Add the correct amount of glyphosate while continuing agitation.
4. Add the correct amount of Merge adjuvant to the tank last. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g., Halt\(^16\)).
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 very rainfast and limited only by the glyphosate manufacturer’s rainfast guidelines.

**Frost** – For frosts above -4°C, spray next day if at least 4 hours of 10°C are expected after spraying. For frosts below -4°C, wait 1 to 2 days then assess plant damage. At least 60% green tissue remaining is needed for spraying.

**Pre-harvest interval**

60 days for all pre-seed and pre-emergent applications.

**Follow crops**

1 year after application

All crops, 1 year after a spring, pre-seed or pre-emergent application.

**Tank mixes**

**Herbicide:** Glyphosate

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

**Always read and follow label directions.**

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