

## HEAT® LQ

Water-based suspension concentrate herbicide for pre-seed, pre-emergent and chemfallow application for control of broadleaf weeds, for pre-harvest weed management in wheat, barley, and triticale, and for harvest aid in canola, dry common beans, red lentil varieties, dry field peas, flax, mustard, soybeans and sunflowers

### COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND  
PEACE RIVER REGION OF BRITISH COLUMBIA ONLY

**GUARANTEE:** Saflufenacil .....342 g/L

Warning, contains the allergen soy

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one,  
each at 0.0043% (BAS 800 04H) **OR** 0.0113% (BAS 800 06H), as preservatives

**REGISTRATION NO. 31468**

**PEST CONTROL PRODUCTS ACT**

### POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673**

**NET CONTENTS:** 0.5 L – 1000 L, Bulk

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## **1.0 GENERAL INFORMATION**

**HEAT LQ** is a water-based suspension concentrate herbicide for broadleaf weed control.

**HEAT LQ** is rapidly absorbed by root and foliar uptake; once absorbed it exhibits mobility in plants. **HEAT LQ** is a potent inhibitor of protoporphyrinogen oxidase (PPO). Cell membrane damage induced by inhibition of PPO leads to plant death. Susceptible weeds develop injury symptoms within hours of application under active growing conditions; plant death occurs within 3 to 5 days depending upon growing conditions.

**HEAT LQ** is recommended for pre-seed and pre-emergent applications. **HEAT LQ** may also be applied in fallow crop lands and post-harvest and as a pre-harvest weed management treatment and as a harvest aid in registered crops.

**HEAT LQ** does not control grass weeds. **HEAT LQ** should always be tank mixed with glyphosate for broad spectrum weed control.

**HEAT LQ** is a broad spectrum weed resistance management tool for activity on a range of broadleaf weeds.

## **2.0 PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.**

**POTENTIAL SKIN SENSITIZER.**

**DO NOT** take internally. Harmful if swallowed.

Avoid contact with skin, eyes or clothing.

Avoid inhalation of vapor or spray. Use with adequate ventilation.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear a long-sleeved shirt, long pants, coveralls, chemical resistant gloves and shoes plus socks during mixing, loading, clean-up and repair. In addition, wear goggles or face shield during mixing/loading. Applicators must wear long-sleeved shirt, long pants, coveralls and shoes plus socks.

If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

### 3.0 FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### TOXICOLOGICAL INFORMATION

Treat symptomatically.

### 4.0 ENVIRONMENTAL HAZARDS

TOXIC to non-target terrestrial plants. Observe buffer zones specified under Section 14 (Restrictions and Limitations).

### 5.0 STORAGE

Protect from freezing. If this product has been stored where freezing temperatures have occurred, thaw the product completely at room temperature, then shake well before use.

**DO NOT** ship or store the product near food, feed, seed or fertilizers.

Store in original container with the lid tightly closed, in a cool, secure, well-ventilated area.

### 6.0 DISPOSAL

#### **For Recyclable containers**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **Returnable-Refillable Containers**

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **7.0 NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## 8.0 REGISTERED CROPS

### 8.1 PRE-SEED OR PRE-EMERGENT

**HEAT LQ** is registered for use prior to the following crops as a pre-seed or pre-emergent application.

• Barley
• Canary seed
• Chickpeas
• Lentils*
• Oats
• Peas (dried field)
• Wheat (spring, winter and durum)
• Corn
• Soybeans*

\* Rate restrictions apply. Refer to crop specific section for details.

### 8.2 CHEMFALLOW

### 8.3 HARVEST AID

**HEAT LQ** is registered for use as a desiccant in the following crops:

• Canola (all types)
• Dry common beans
• Flax
• Lentils (red lentil varieties only)
• Mustard <sup>1</sup>
• Peas (dried field)
• Soybeans
• Sunflower

<sup>1</sup> All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the **Clearfield®** trait, and yellow mustard.

## 8.4 PREHARVEST WEED MANAGEMENT

**HEAT LQ** is registered for use as a pre-harvest treatment to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane in the following crops:

<ul style="list-style-type: none"><li>• Barley (including spring, winter and malting barley)</li></ul>
<ul style="list-style-type: none"><li>• Triticale</li></ul>
<ul style="list-style-type: none"><li>• Wheat (including durum, spring and winter wheat)</li></ul>

## 9.0 DIRECTIONS FOR USE

### 9.1 CROP USE RATES – HEAT LQ

For all **HEAT LQ** solo applications applied pre-seed, pre-emergent or as a chemfallow treatment, use MERGE® Adjuvant at 0.5 – 1 L/ha.

#### 9.1.1 PRE-SEED OR PRE-EMERGENT

Crop	Use Rate (mL/ha)
Lentils <sup>1</sup>	53
Soybean <sup>2</sup>	53
Barley	53 – 146
Canary seed	53 – 146
Chickpea Kabuli	53 – 146
Corn (field, sweet <sup>3</sup> )	53 – 146
Oats	53 – 146
Peas (dried field)	53 – 146
Wheat (spring, durum, winter)	53 – 146
Chemfallow	53 – 146

<sup>1</sup> Rate restrictions apply. Do not use rates higher than 53 mL/ha or injury could result. See crop specific section for additional details.

<sup>2</sup> Rate restrictions apply. Do not use rates higher than 53 mL/ha or injury could result. See crop specific section for additional details. Some soybeans cultivars may be more sensitive to saflufenacil and injury might occur.

<sup>3</sup> Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.



### 9.1.2 CHEMFALLOW

Crop	Use Rate (mL/ha)	Application Timing
Chemfallow	53 – 146	Post-emergence in fallow croplands and post-harvest.

### 9.1.3 HARVEST AID

**HEAT LQ** may be used as a harvest aid to accelerate the rate of crop dry down and improve crop uniformity to facilitate direct combining. Early application may result in yield loss.

The dry down of crops will be best under favorable environmental conditions like warm temperatures, good moisture conditions and high humidity.

Harvesting of crops can be done when plant material is dry and seed moisture level allows efficient harvesting. For most crops, harvest can normally commence within 3-10 days after desiccation. Adverse weather conditions such as rainfall, cool temperatures and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the **HEAT LQ** application.

**HEAT LQ** when used as harvest aid will not affect the seed germination if applied according to label recommendations.

Crop	Use Rate (mL/ha)	Application Timing
Canola (all types), dry common beans, flax, lentils <sup>1</sup> , mustard <sup>2</sup> , peas (dried field), soybeans, and sunflower	73 – 146	Harvest aid

<sup>1</sup> Apply only to red lentil varieties.

<sup>2</sup> All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the **Clearfield** trait, and yellow mustard.

#### Aerial Application

**HEAT LQ** can be used for aerial application when used as a harvest aid or a pre-harvest weed management (see section 9.1.4) in the registered crops.

Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotor-span.

Ensure thorough coverage of foliage. Consult nozzle manufacturer's recommendation for spray pressures for specific nozzles.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Do not apply during periods of dead calm.

Observe buffer zones specified under Section 14 (Restrictions and Limitations)

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, a long-sleeved shirt, long pants, coveralls, shoes plus socks, and goggles or face shield during mixing/loading, cleanup and repair. Applicators must wear long-sleeved shirt, long pants, and shoes plus socks. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **HARVEST AID - CROP SPECIFIC RECOMMENDATIONS STAND-ALONE**

See Section 9.1.3, above, for further use instructions.

### 9.1.3.1 DESICCATION - DRY COMMON BEANS / SOYBEANS

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when stems are green to brown in colour and pods are mature (yellow – brown) and 80 – 90% of the original leaves have dropped.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Do not graze or feed treated hay or straw to livestock.

### 9.1.3.2 DESICCATION - RED LENTIL VARIETIES

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when lowermost pods (bottom 15%) are brown and rattle when shaken.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Apply only to red lentil varieties. Do not graze or feed treated hay or straw to livestock.

### 9.1.3.3 DESICCATION – FIELD PEAS

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when the majority of pods are brown (70 – 80%).
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Desiccation treated pea vines may be grazed or fed to livestock.

#### 9.1.3.4 DESICCATION – SUNFLOWER

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when the backs of the heads and bracts are turning yellow, and seed moisture is 20 – 30%.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.

#### 9.1.3.5 DESICCATION – CANOLA (ALL TYPES) AND MUSTARD<sup>1</sup>

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when 60 – 75% of seeds have changed colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	The use of <b>HEAT LQ</b> as a desiccant in canola and mustard may cause shattering.

<sup>1</sup> All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the **Clearfield** trait, and yellow mustard.

#### 9.1.3.6 DESICCATION – FLAX

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when 75% of bolls have turned colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.

### 9.1.4 PRE-HARVEST WEED MANAGEMENT

**HEAT LQ** may be used as a pre-harvest treatment in wheat (including durum, spring, and winter wheat), barley (including spring, winter, and malting barley) and triticale to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane and to facilitate direct combining. Early application may result in yield loss.

**HEAT LQ** when used alone as a pre-harvest treatment will not affect the seed germination if applied according to label recommendations.

### WHEAT, BARLEY AND TRITICALE

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + adjuvant
Water Volume	100 – 200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Hard dough stage; a thumbnail impression remains on seed; less than 30% moisture.
Weeds Controlled	Improved dry down of volunteer canola (all types including Roundup Ready), common ragweed and Canada fleabane
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Treated barley, wheat and triticale straw may be grazed or fed to livestock. Use higher water volume for dense crop stands and higher weed pressure.

### 9.2 WEEDS CONTROLLED

**HEAT LQ** can be applied pre-seed or pre-emergence to the crop to control weeds listed below.

**HEAT LQ** should always be applied in combination with glyphosate for broad spectrum weed control including grassy weeds.

#### For Rapid Burndown (Pre-seed or Pre-emergent)

**Use Rate: 53 mL/ha**

Weed	Maximum Weed Stage
Kochia	15 cm
Canada fleabane	8 leaf
Cleavers	4-whorl stage
Lamb's-quarters	8 leaf

Weed	Maximum Weed Stage
Narrow-leaved hawk's beard	8 cm
Redroot pigweed	8 leaf
Round-leaved mallow	8 leaf
Stinkweed	8 leaf
Volunteer canola (all types including Roundup Ready)	8 leaf
Wild buckwheat	8 leaf
Wild mustard	8 leaf

**For Rapid Burndown and Suppression of Secondary Weed Flushes (Pre-seed or Pre-emergent)**

**Use Rate: 146 mL/ha**

Weed	Maximum Weed Stage
Redroot pigweed	8 leaf
Stinkweed	8 leaf
Volunteer canola (all types including Roundup Ready)	8 leaf
Wild buckwheat	8 leaf
Wild mustard	8 leaf

**9.3 TANK MIXES – PRE-SEED, PRE-EMERGENT AND CHEMFALLOW**

**9.3.1 HEAT LQ + GLYPHOSATE**

For broad spectrum weed control, **HEAT LQ** should always be tank mixed with glyphosate present as isopropylamine salt, di-ammonium salt or potassium salt. **HEAT LQ** is compatible with all liquid glyphosate formulations in which glyphosate is present as isopropylamine salt, di-ammonium salt or potassium salt.

Tank mixing **HEAT LQ** with glyphosate will provide control of all weeds controlled by glyphosate in addition to the broadleaf weeds listed on the **HEAT LQ** label. Consult the glyphosate label for a complete list of weeds controlled by glyphosate.

Tank mixing is a recognized strategy to delay herbicide resistance as well as improve the weed spectrum controlled.

## TANK MIX CROP USE RATES

### HEAT LQ + Glyphosate Use Rate (360 g/L equivalent) 1.25 – 2.5 L/ha

Crop	HEAT LQ Use Rate (mL/ha)
Lentils <sup>1</sup>	53
Soybean <sup>2</sup>	53
Barley	53 – 146
Canary seed	53 – 146
Chickpea Kabuli	53 – 146
Corn (field, sweet <sup>3</sup> )	53 – 146
Oats	53 – 146
Peas (dried field)	53 – 146
Wheat (spring, durum, winter)	53 – 146
Chemfallow	53 – 146

<sup>1</sup> Rate restrictions apply. Do not use rates higher than 53 mL/ha or crop injury may result. See crop specific section for additional details.

<sup>2</sup> Rate restrictions apply. Do not use rates higher than 53 mL/ha or crop injury may result. See crop specific section for additional details. Some soybeans cultivars may be more sensitive to saflufenacil and injury might occur.

<sup>3</sup> Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.

For tank mix applications of **HEAT LQ** with glyphosate, use MERGE Adjuvant or Amigo® at 0.5 – 1 L/ha.

Always refer to the tank mix partner herbicide label for precautions, use instructions and crop rotation restrictions. Do not apply tank mix combinations by air.

When a tank mix is used, consult the labels of the tank mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarse spray (ASAE) category indicated on the labels for those tank mix partners.

## TANK MIX WEEDS CONTROLLED

### Rapid Burndown (Pre-seed or Pre-emergent)

**HEAT LQ** when tank mixed with glyphosate will provide rapid burndown of the following weeds in addition to those weeds listed under **HEAT LQ** applied alone.

**Use Rate: 53 mL/ha**

Weed	Maximum Weed Stage
Dandelion (top growth burndown control only)	15 cm
Flixweed	8 leaf

## 9.4 CROP SPECIFIC RECOMMENDATIONS - PRE-SEED OR PRE-EMERGENT

### 9.4.1 CHICKPEAS AND PEAS (dried field)

Timing	Pre-seed or Pre-emergent
Rate	53 – 146 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .
Remarks	<b>Do not</b> apply any other soil applied herbicide with, before, or after applications of <b>HEAT LQ</b> + glyphosate. Sufficient data to support such a use pattern is not available and injury could result.

### 9.4.2 CEREALS – BARLEY, CANARY SEED, OATS AND WHEAT (spring, durum, winter)

Timing	Pre-seed or Pre-emergent
Rate	53 – 146 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .

### 9.4.3 SOYBEANS

Timing	Pre-seed or Pre-emergent
Rate	53 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant



Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .
Remarks	Some soybean cultivars may be more sensitive to saflufenacil and injury might occur.

#### 9.4.4 LENTILS (including Clearfield® Lentils)

Timing	Pre-seed or Pre-emergent
Rate	53 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .
Remarks	<p><b>Do not</b> apply any other soil applied herbicide with, before, or after applications of <b>HEAT LQ</b> + glyphosate. The addition of other soil applied herbicides can increase the sensitivity of lentils to <b>HEAT LQ</b> and injury could result.</p> <p>Rainfall shortly after product application can result in slight injury to the crop. Lentils will be more susceptible to injury on coarse texture and low organic matter soils. Injury will usually appear as leaf tissue necrosis on the outer edges of the leaves. Lentils will grow out of injury symptoms, and yield will not be impacted at recommended rates.</p>

#### 9.4.5 CORN (field, sweet)

Timing	Pre-seed or Pre-emergent
Rate	53 – 146 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .
Remarks	Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.

## 9.5 CHEMFALLOW

Timing	Chemfallow
Rate	53 – 146 mL/ha of <b>HEAT LQ</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant or Amigo at a rate of 0.5 – 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by <b>HEAT LQ</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>HEAT LQ</b> .
Remarks	Apply to actively growing weeds less than 15 cm in height. Better coverage of the product results in enhanced control of weeds. For application to larger weeds or dense weed infestations, use minimum water volume of 100 L per hectare.

## 9.6 HARVEST AID - TANK-MIX CROP SPECIFIC RECOMMENDATIONS

**HEAT LQ** may be used as a harvest aid to accelerate the rate of crop dry down and improve crop uniformity to facilitate direct combining. Early application may result in yield loss.

The dry down of crops will be best under favorable environmental conditions like warm temperatures, good moisture conditions and high humidity.

Harvesting of crops can be done when plant material is dry and seed moisture level allows efficient harvesting. For most crops, harvest can normally commence within 3-10 days after desiccation. Adverse weather conditions such as rainfall, cool temperatures and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the **HEAT LQ** application.

**HEAT LQ** may be applied in tank mix with glyphosate for additional pre-harvest weed control.

**The tank mix with glyphosate may affect the seed germination. Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.**

### 9.6.1 DESICCATION - DRY COMMON BEANS\*/ SOYBEANS

Timing	Desiccation of DRY COMMON BEANS* / SOYBEANS
Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Remarks	*Consult glyphosate label or BASF representative for information on the use on specific varieties of dry common beans.
Application Timing	Apply when stems are green to brown in colour and pods are mature (yellow – brown) and 80 – 90% of the original leaves have dropped.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	Do not graze or feed treated hay or straw to livestock.  See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.  Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

### 9.6.2 DESICCATION - RED LENTIL VARIETIES

Timing	Desiccation of RED LENTIL VARIETIES
Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when lowermost pods (bottom 15%) are brown and rattle when shaken.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	Apply only to red lentil varieties. Do not graze or feed treated hay or straw to livestock.  See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.  Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

### 9.6.3 DESICCATION – FIELD PEAS

Timing	Desiccation of FIELD PEAS
Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when the majority of pods are brown (70–80%).
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.  Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

### 9.6.4 DESICCATION – CANOLA (ALL TYPES) AND MUSTARD<sup>1</sup>

Timing	Desiccation of CANOLA (all types) and MUSTARD
Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when 60 – 75% of seeds have changed colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	The use of <b>HEAT LQ</b> as a desiccant in canola and mustard may cause shattering. See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.  Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

<sup>1</sup> All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the **Clearfield** trait, and yellow mustard.

### 9.6.5 DESICCATION – FLAX

Timing	Desiccation of FLAX
Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Apply when 75% of bolls have turned colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.  Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

### 9.7 PRE-HARVEST WEED MANAGEMENT – TANK MIX CROP SPECIFIC RECOMMENDATIONS

**HEAT LQ** may be used as a pre-harvest treatment in wheat (including durum, spring and winter wheat), barley (including spring, winter and malting barley) and triticale to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane. Tank mixing **HEAT LQ** with glyphosate will provide additional pre-harvest weed management to the crop dry down provided by glyphosate.

**The tank mix with glyphosate may affect the seed germination. Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.**

#### WHEAT AND BARLEY

Rate	73 – 146 mL/ha of <b>HEAT LQ</b> + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	100 – 200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 – 1 L/ha.
Application Timing	Hard dough stage; a thumbnail impression remains on seed; less than 30% moisture.
Weeds Controlled	Improved dry down of volunteer canola (all types including Roundup Ready), common ragweed and Canada fleabane. Consult the glyphosate label regarding additional pre-harvest weed control.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.

Remarks	<p>See Section 9.6 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.</p> <p>Use higher water volume for dense crop stands and higher weed pressure.</p> <p>Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.</p>
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## 10.0 MIXING INSTRUCTIONS

1. When using **HEAT LQ**, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add **HEAT LQ** first and continue to agitate until thoroughly mixed.
4. When tank mixing, add tank-mix partner and continue agitation.
5. If recommended, add the correct amount of MERGE Adjuvant or Amigo.
6. Continue agitation while filling the remainder of the tank with water necessary to fill the spray tank.
7. Continue to agitate or run the by-pass system.
8. After any break in spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
9. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
10. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Dispose of all rinsings in accordance with provincial regulations.

## 11.0 PRE-HARVEST INTERVAL (PHI)

The following pre-harvest intervals should be observed for respective crops when **HEAT LQ** is used as a pre-seed or pre-emergent application.

Crop	PHI (days)
Barley	60
Canary seed	60

<b>Crop</b>	<b>PHI (days)</b>
Chickpea	60
Corn (field, sweet)	60
Lentils	60
Oats	60
Peas (dried field)	60
Soybean	60
Wheat (spring, winter, durum)	60

The following pre-harvest intervals should be observed for respective crops when **HEAT LQ** is used as a harvest aid or a pre-harvest treatment for weed management.

<b>Crop</b>	<b>PHI (days)</b>
• Barley	3
• Canola	3
• Dry common beans	2
• Flax	3
• Lentils	3
• Mustard	3
• Peas (dried field)	3
• Soybeans	3
• Sunflower	7
• Triticale	3
• Wheat	3

## 12.0 FOLLOW CROPPING

The crops listed can be safely grown after a spring application of **HEAT LQ**.

<b>Plant Back Crops</b> In case of crop failure, the following crops can be planted in the same season <sup>1</sup>	<b>Rotational Crops</b> The following crops can be planted anytime in the following season
Barley Canary seed Chickpeas Corn (field and sweet) Lentils* Oats Dry field peas Soybean* Wheat (spring, winter & durum)	Barley (spring, winter, malting) Canary seed Canola Chickpeas Corn (field and sweet) Dry common beans Flax Lentils Mustard Oats Dry field peas Soybean Triticale Wheat (spring, winter & durum)
* Rate restrictions apply. Lentils and soybeans can only be grown as plant back crops provided that a maximum product use rate of 53 mL/ha was used in the previous crop.	

<sup>1</sup> A second application of **HEAT LQ** cannot be made in the rescue crop.

The crops listed below can be safely grown after a fall application of **HEAT LQ**.

Rotational crops that can be planted in the following spring after application	Rotational crops that can be planted in the second spring after application
Barley (spring, winter, malting) Canary seed Canola Chickpeas Corn (field and sweet) Flax Lentils Mustard Oats Dry field peas Soybeans Wheat (spring, winter, and durum)	All crops



## 13.0 SPRAYING INSTRUCTIONS

### Water volume and spray pressure

#### Conventional ground application

Use sprayers equipped with standard flat nozzles. The use of 80°-110° stainless steel flat fan nozzle is recommended for optimum spray coverage with nozzles tilted 45° forward to ensure better coverage.

Thoroughly clean all screens to prevent nozzle clogging. Apply in a water volume of 50-100 L/ha and at a pressure of 240 kPa. For applications to dense weed infestations and thick canopies, use a higher water volume at pressures of 275 kPa.

Better coverage of the product results in enhanced control of weeds.

## 14.0 RESTRICTIONS AND LIMITATIONS

1. Wash sprayer thoroughly after use to avoid damage to the next crop sprayed.
2. DO NOT APPLY BY AIR, unless specified otherwise.
3. DO NOT enter or allow worker entry into treated areas for 12 hours after application.
4. Field corn – Corn forage and silage can be harvested, used as feed or grazed 60 or more days after application of **HEAT LQ**.
5. Legume forage (chickpeas, field peas and lentils) may be used as feed or grazed 60 or more days after application of **HEAT LQ**. Desiccation-treated pea vines may be grazed or fed to livestock.
6. Small grains (wheat, barley and oats) – forage and hay can be used as feed or grazed 30 or more days after application of **HEAT LQ**. Pre-harvest treated barley, wheat and triticale straw may be grazed or fed to livestock
7. Soybeans may be used as feed or grazed 60 or more days after application of **HEAT LQ**.
8. Soybeans and dry common beans – Do not graze or feed treated hay or straw to livestock when **HEAT LQ** is used as a harvest aid.
9. DO NOT apply directly to water. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
10. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
11. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

12. In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact BASF at 1-877-371-2273 or [www.agsolutions.ca](http://www.agsolutions.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by BASF.

### Buffer zones

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor-span.

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands).

Method of application	Crop	Buffer zones (metres) required for the protection of terrestrial habitats	
Field sprayer*	Lentils, soybean (pre-seed or pre-emergent)	3	
	Barley, canary seed, chickpea, corn, oats, dried field peas, wheat (pre-seed or pre-emergent); Chemfallow; Canola, flax, lentil, soybean, mustard, dried field peas, sunflower, dry common beans, wheat, barley, triticale (harvest aid)	10	
Aerial	Canola, flax, lentil, mustard, soybean, dried field peas, sunflower, dry common bean, wheat, barley, triticale (harvest aid)	Fixed wing	175
		Rotary wing	150

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are

fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

## 15.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **HEAT LQ** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **HEAT LQ** and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of **HEAT LQ** or other Group 14 or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca).

®All other products listed are registered trademarks of their respective companies.

**HEAT® LQ**

Water-based suspension concentrate herbicide

**COMMERCIAL (AGRICULTURAL)**

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND  
PEACE RIVER REGION OF BRITISH COLUMBIA ONLY

**GUARANTEE:** Saflufenacil .....342 g/L

Warning, contains the allergen soy

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one,  
each at 0.0043% (BAS 800 04H) **OR** 0.0113% (BAS 800 06H), as preservatives

**REGISTRATION NO. 31468**

**PEST CONTROL PRODUCTS ACT**

**POTENTIAL SKIN SENSITIZER**

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673**

**NET CONTENTS:** 1.727 L

BASF Canada Inc.  
100 Milverton Drive, 5th Floor  
Mississauga, ON L5R 4H1  
1-877-371-2273

HEAT is a registered trademark of BASF SE, used with permission by BASF Canada Inc.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.**

**POTENTIAL SKIN SENSITIZER.**

**DO NOT** take internally. Harmful if swallowed.

Avoid contact with skin, eyes or clothing.

Avoid inhalation of vapor or spray. Use with adequate ventilation.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear a long-sleeved shirt, long pants, coveralls, chemical resistant gloves and shoes plus socks during mixing, loading, clean-up and repair. In addition, wear goggles or face shield during mixing/loading. Applicators must wear long-sleeved shirt, long pants, coveralls and shoes plus socks.

If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## **FIRST AID**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **ENVIRONMENTAL HAZARDS**

TOXIC to non-target terrestrial plants.

## **STORAGE**

Protect from freezing. If this product has been stored where freezing temperatures have occurred, thaw the product completely at room temperature, then shake well before use.

DO NOT ship or store the product near food, feed, seed or fertilizers.

Store in original container with the lid tightly closed, in a cool, secure, well-ventilated area.

## **DISPOSAL**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.