

2014-3160  
2015-06-01



Bayer CropScience

VIOS G3

GROUP	2	27	HERBICIDE
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SUSPENSION HERBICIDE

FOR POSTEMERGENCE CONTROL OF ANNUAL GRASSES AND BROADLEAF  
WEEDS IN FIELD CORN

**FOR SALE FOR USE ONLY IN EASTERN CANADA**

AGRICULTURAL

GUARANTEE: thiencazuron-methyl ..... 68 g/L  
                  tembotrione ..... 345 g/L

CONTAINS 2-METHYL-2H-ISOTHIAZOL-3-ONE AT 0.005% AND  
1,2-BENZISOTHIAZOLIN-3-ONE AT 0.005% AS PRESERVATIVES or 1,2-  
BENZISOTHIAZOLIN-3-ONE AT 0.04%

REGISTRATION NO. 29643 PEST CONTROL PRODUCTS ACT

CAUTION – EYE IRRITANT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS : 400 mL to Bulk

Product Information: 1-888-283-6847

[www.bayercropscience.ca](http://www.bayercropscience.ca)

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd S.E.  
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number 1-800-334-  
7577 (24 hours a day).

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.

**DIRECTIONS FOR USE:** See the printed booklet provided with this container.

**PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. **PERSONAL PROTECTIVE EQUIPMENT:** Applicators and Other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as those made of any water proof material such as polyethylene or polyvinyl chloride, shoes plus socks. In addition, workers mixing/loading must wear protective eyewear (safety glasses). Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. Refer to full label booklet, SAFETY AND HANDLING (Section 3) for additional USER SAFETY PRECAUTIONS.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

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

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor.

Do not give **any** liquid to the person. 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.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

**ENVIRONMENTAL PRECAUTIONS:** This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms, non-target terrestrial plants and small wild mammals. Refer to DIRECTIONS FOR USE (Section 9.3) for additional ENVIRONMENTAL PRECAUTIONS and observe BUFFER ZONES specified.

**STORAGE :** Store in a cool, dry place. Do not store below freezing. Shake well before using. Do not contaminate, water, food, or feed by storage and disposal. Store product in original container only and keep closed. Do not use or store in or around the home. To prevent contamination store this product away from food, feed, other pesticides, feeds, seeds or fertilizers.

## **DISPOSAL:**

### **Recyclable Container**

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.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Returnable-Refillable Container:** 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 use this container for any other purpose.

### **For non-recyclable Bag/Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

**Disposal of Unused, Unwanted Product:** 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 cleanup of spills.

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## GENERAL INFORMATION

### SECTION 1: 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.

### SECTION 2: THE PRODUCT

VIOS G3 is a post-emergent herbicide that provides residual control of certain annual grass weeds and annual broadleaf weeds in field corn.

FOR SALE FOR USE ONLY IN EASTERN CANADA

## SAFETY AND HANDLING

### SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and Other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as those made of any water proof material such as polyethylene or polyvinyl chloride
- Shoes plus socks
- In addition, workers mixing/loading must wear protective eyewear (safety glasses)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Application is limited to agricultural crops only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

### **SECTION 4: FIRST AID AND TOXICOLOGICAL INFORMATION**

#### **FIRST AID:**

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

If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give <b>any</b> liquid to the person.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control centre or doctor for further treatment advice.</li></ul>

If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15–20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control centre or doctor for treatment advice if irritation persists.</li> </ul>
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**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

## SECTION 5: ENVIRONMENTAL PRECAUTIONS AND INFORMATION

This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms, non-target terrestrial plants and small wild mammals. Refer to DIRECTIONS FOR USE (Section 9.3) for additional ENVIRONMENTAL PRECAUTIONS and observe BUFFER ZONES specified.

## SECTION 6: STORAGE

Store in a cool, dry place. Do not store below freezing. Shake well before using. Do not contaminate, water, food, or feed by storage and disposal. Store product in original container only and keep closed. Do not use or store in or around the home. To prevent contamination store this product away from food, feed, other pesticides, feeds, seeds or fertilizers.

## SECTION 7: DISPOSAL

### **Recyclable Container**

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.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).



**Returnable-Refillable Container:** 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 use this container for any other purpose.

**For non-recyclable Bag/Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

**Disposal of Unused, Unwanted Product:** 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 cleanup of spills.

**DIRECTIONS FOR USE**

**SECTION 8: CROPS AND WEEDS**

**8.1 CROPS AND APPLICATION TIMING**

VIOS G3 IS FOR POST-EMERGENCE USE IN TANK-MIX COMBINATION WITH LIBERTY OR GLYPHOSATE HERBICIDES FOR USE IN LIBERTY LINK OR GLYPHOSATE TOLERANT CORN. This tank-mix combination **MUST** be applied postemergence to field corn when at the indicated growth stages.

CROP	GROWTH STAGE	REMARKS
Field Corn*	Crops may be treated when at the 1-leaf stage of growth up to and including 6 leaf (BBCH 11-16)	<ul style="list-style-type: none"> <li>• <b>*Liberty Link or glyphosate tolerant corn varieties only.</b></li> <li>• Do not apply to a crop that is stressed by severe weather conditions, frost, low fertility, drought, water-saturated soil, disease or insect damage, as crop injury may result.</li> </ul>

VIOS G3 provides residual control of broadleaf and grass weed species when tank-mixed with LIBERTY or a labelled glyphosate herbicide. Consult the appropriate label of the tank mix partner for further instructions regarding directions for use, restrictions, precautions and additional weeds not specified on this label. Always observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

### APPLICATION RATES

Products	Rates	WEEDS CONTROLLED
VIOS G3  plus Liberty 200SN Herbicide	110 mL/ha  2.0 – 2.5 L/ha <sup>1</sup>	<b>For residual control of Annual Broadleaf Weeds:</b> Lamb's-quarters, Redroot Pigweed, Wild Buckwheat, Lady's thumb, Wild mustard, Common hempnettle, Common chickweed
VIOS G3  plus Roundup Weathermax or Roundup Ultra 2  or Touchdown TOTAL  or Glyphos Soluble Concentrate or Vantage Plus or Vantage Plus Max	110 mL/ha  1.67 L/ha 1.67 L/ha  1.8 L/ha  2.5 L/ha 2.5 L/ha 2.5 L/ha	Spiny annual sowthistle Common ragweed Velvetleaf Eastern black nightshade  Common waterhemp <sup>2</sup> Giant ragweed  <b>Annual Grass Weeds:</b> Green Foxtail,  Yellow Foxtail,  Barnyard Grass,  Witchgrass  Large Crabgrass

1 Refer to Liberty 200 SN Herbicide for weed/rate chart.

2 Including ALS- resistant biotypes.

### 8.3 RAINFASTNESS

VIOS G3 provides residual weed control. Consult the label of the tank-mix partner for specific rainfast intervals.

## **SECTION 9: APPLICATION INSTRUCTIONS and USE LIMITATIONS**

### 9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION

- VIOS G3 MUST be tank-mixed with LIBERTY or a labelled glyphosate herbicide.
- Only apply ONE application of VIOS G3 to corn per growing season.
- Apply VIOS G3 under favorable environmental conditions, and delay application if crop is under stress; including injury from previous herbicide applications.
- To reduce the risk of injury to off-site vegetation, apply VIOS G3 when the risk of spray drift is minimal.
- Careful management of spray drift and tank cleanout is required (refer to section 9.3- SPRAY DRIFT MANAGEMENT and section 12-SPRAYER CLEAN-UP).
- Follow directions under Section 8 for the correct rate and timing of application.

### 9.2 GROUND APPLICATION

#### **GROUND APPLICATION**

- Apply with ground equipment. DO NOT APPLY BY AIR.
- Apply VIOS G3 as a broadcast spray in a minimum of 150 L/ha of water and at a pressure of 175 - 275 kPa.
- Good coverage is essential to achieve optimum weed control.
- Uniform, thorough spray coverage is important to achieve consistent weed control. Select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per hectare (L of water/ha) is increased to maintain coverage of weeds.
- Flat fan nozzles of 80° or 110° are recommended for optimum post emergence coverage. Do not use nozzles that produce FINE (e.g. - Cone) or EXTRA COARSE (e.g. - Flood jet) spray droplets.
- Boom height should be based on the height of the crop – at least 33 centimetres above the crop canopy.
- Proper agitation should be maintained within the tank to keep the product dispersed.

### 9.3 ADDITIONAL ENVIRONMENTAL PRECAUTIONS, SPRAY DRIFT MANAGEMENT AND BUFFER ZONES

#### Environmental Precautions:

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- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/ marine habitats.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.
- 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.

#### Spray Drift Management:

- Spray drift may result in injury to non target crops or vegetation. **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.**
- To avoid spray drift, do not apply when wind speed is greater than 15 km/h or during periods of temperature inversions. Do not apply when weather conditions, wind speed or wind direction may cause spray drift to non-target areas.
- The most effective way to reduce drift potential is to apply the largest droplets that provide sufficient coverage and weed control. Applying larger droplets reduces drift potential, but may not prevent spray drift if unfavorable environmental conditions exists (e.g. wind direction toward sensitive areas or wind speed greater than 15 km/h).
- To minimize risk of spray drift, select nozzles and pressures that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to further reduce spray drift potential, however, application volume per hectare (L of water per hectare) should be increased to maintain coverage and weed control.
- Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non target crops) is minimal (e.g. when wind is 15 km/h or less and is blowing away from sensitive areas).

- 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.
- DO NOT apply by air.

**Buffer zones:**

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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Field Corn	1	1	1	1	10

When a tank mixture 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.

## 9.4 ROTATIONAL CROPS

Only the following crops have been field tested to indicate they may be safely planted at the prescribed interval after an application of VIOS G3. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of VIOS G3, follow the crops and replanting interval which appear on this label, and if tank mixing on the label of the tank mix partner, and always observe the most restrictive replanting interval.

<b>Immediate plant back*</b>	<b>4 months</b>	<b>10 months</b>	<b>22 months</b>
Field Corn	Winter Wheat	Alfalfa Canola Dry Bean Field Peas Oats Soybean Spring Barley Spring Wheat	Potato Sugarbeet Tomato

\* In the event that corn crop treated with VIOS G3 is lost due to environmental conditions and re-seeding is required, field corn may be reseeded immediately.

### **SECTION 10: PRE-HARVEST- , PRE-GRAZING/FEEDING AND RE-ENTRY INTERVALS**

- DO NOT graze the treated crops or cut for forage (silage) within 45 days of application.
- DO NOT harvest grain or stover within 89 days of application.
- DO NOT re-enter or allow worker entry to treated fields within 12 hours of application.
- If tank mixing, always respect the maximum intervals stated on the labels of all the tank mix products.

### **SECTION 11: MIXING INSTRUCTIONS**

VIOS G3 must be applied with properly calibrated and clean sprayer equipment. VIOS G3 is specially formulated to mix readily in water. Prior to adding VIOS G3 to the spray tank, ensure that the spray tank is thoroughly clean (see Section 12 "Sprayer Cleanup").

1. Fill the spray tank  $\frac{1}{4}$  to  $\frac{1}{2}$  full with clean water and begin agitation or bypass.
2. Add the appropriate rate of VIOS G3, as specified under Section 8, directly to the spray tank. Maintain sufficient agitation during both mixing and application.

3. Add the tank mix product next.
4. Fill the spray tank with balance of water needed.
5. Maintain sufficient agitation during both mixing and application of VIOS G3 as the product may settle if left standing without agitation. If the spray solution is allowed to stand for one hour or more, re-agitate the spray solution for a minimum of 10 minutes before application.

Apply VIOS G3 spray mixtures within 24 hours of mixing to avoid product degradation.

## **SECTION 12: SPRAYER CLEANUP**

Before and after using VIOS G3 always complete a thorough cleaning of the spray tank, lines and filters. The following procedures are recommended:

1. Drain the tank completely, and then wash out tank, boom and hoses with clean water. Drain again.
2. Half fill the tank with clean water and add ammonia (i.e., 3% domestic ammonia solution) at a dilution rate of 1% (i.e., 1 litre of domestic ammonia for every 100 litres of rinsate). Complete filling of the tank with water. Agitate/recirculate and flush through boom and hoses. Leave agitation on for 10 minutes. Drain tank completely.
3. Repeat step 2.
4. Remove nozzles and screens and soak them in a 1% ammonia solution. Inspect nozzles and screens and remove visible residues.
5. Flush tank, boom, and hoses with clean water.
6. Inspect tank for visible residues. If present, repeat step 2.
7. Dispose of rinsate in accordance with provincial regulations.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## **SECTION 13: RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, VIOS G3 is a Group 2 and Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to VIOS G3 and other Group 2 or Group 27 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:

1. Where possible, rotate the use of VIOS G3 or other Group 2 and/or Group 27 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
2. 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.

3. 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.
4. 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.
5. Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
6. 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.
7. For further information or to report suspected resistance contact Bayer CropScience Inc. via internet at <http://www.bayercropscience.ca> or telephone at 1-888-283-6847.

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