

**Voraxor®**

HERBICIDE

SUSPENSION CONCENTRATE

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENTS:** Trifludimoxazin ..... 125 g/L  
Saflufenacil ..... 250 g/L

Contains 2-bromo-2-nitropropane-1,3-diol at 0.024%, 1,2-benzisothiazolin-3-one at 0.04%,  
5-chloro-2-methyl-4-isothiazolin-3-one at 0.0011% and 2-methyl-4-isothiazolin-3-one  
at 0.00037%, as preservatives

Warning, contains the allergen soy

**REGISTRATION NO. 33968**

**PEST CONTROL PRODUCTS ACT**

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 L – 1000 L, Bulk

BASF Agricultural Solutions Canada Inc.  
510 - 28 Quarry Park Blvd. SE  
Calgary, Alberta T2C 5P9  
1-877-371-2273

VORAXOR is a registered trade-mark of BASF SE, used under license by BASF Agricultural  
Solutions Canada Inc.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

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

Avoid contact with skin, eyes or clothing.

Avoid breathing spray and mist. Use with adequate ventilation.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, smoking or using the toilet. Take a shower immediately after work.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, applications, clean-up and repair. Gloves are not required during application within a closed cab.

If clothing becomes contaminated, remove immediately and wash separately from household laundry before reuse.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

**DO NOT** apply by air.

## **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 PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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 filter strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

## **STORAGE**

Store this product away from food or feed.

Prevent from freezing. However, in the instance that the product freezes, allow to thaw at room temperature for 24 hours and agitate well prior to use.

Store in original container in a cool, secure and well-ventilated area separately from fertilizer, feed or food. Avoid cross-contamination with other pesticides.

## **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/territorial requirements.

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**For Containers that can be Refilled for the user by the distributor/dealer**

For disposal, this 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.

**Disposal of Unused, Unwanted Product**

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

**NOTICE TO USER**

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## **DIRECTIONS FOR USE**

**Voraxor®** is a water-based suspension concentrate herbicide for pre-seed, pre-emergent and chemfallow application for control of broadleaf weeds. **Voraxor** provides both post-emergence control (i.e. foliar contact burndown) of emerged weeds and rate-dependent residual pre-emergence control of germinating weeds.

**Voraxor** is recommended for pre-seed and pre-emergent applications to the crop. **Voraxor** must be applied before crop emergence (ground cracking) has occurred or injury will result. For broad spectrum weed control, apply **Voraxor** in tank mix with glyphosate.

**Voraxor** is rapidly absorbed by root and foliar uptake. **Voraxor** is a potent inhibitor of protoporphyrinogen oxidase (PPO). Cell membrane damage induced by inhibition of PPO leads to plant death. Under active growing conditions, susceptible emerged weeds develop injury symptoms within hours of application; plant death occurs within 3 to 5 days depending upon growing conditions. Susceptible emerging weed seedlings will usually die as they reach the soil surface or shortly after emergence.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

**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.

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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.



**DO NOT** apply by air.

## SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop or foliage.

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

| Method of application | Crop  | Spray Buffer Zones (metres) Required for the Protection of: |                  |                      |
|-----------------------|---|---|------------------|----------------------|
|                       |   | Freshwater Habitat of Depths:                               |                  | Terrestrial Habitat: |
|                       |   | Less than 1 m   | Greater than 1 m |                      |
| Field sprayer         | Barley, canaryseed, field corn, peas (dried field), lentils, chickpeas, faba beans, soybeans, oats, fall rye, triticale, wheat (including durum, spring, and winter) and chemfallow | 2   | 1                | 5                    |

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

### 1.0 Registered Crops

**Voraxor** is registered for use prior to the following crops as a pre-seed or pre-emergent application. **Voraxor** may also be applied as a chemfallow application for control of broadleaf weeds.

- Barley
- Canaryseed
- Field corn

- Lentils
- Peas (dried field)
- Chickpeas
- Faba beans
- Soybeans
- Oats
- Fall rye
- Triticale
- Wheat (including durum, spring and winter wheat)

## 2.0 Application Rates

Uniformly apply **Voraxor** as a broadcast spray by ground at rates indicated below. Thorough spray coverage is required for optimum weed control. Always apply with MERGE® Adjuvant at 0.5 – 1 L/ha. Refer to **Crop Specific Recommendations** section for detailed use instructions, as well as recommendations on tank mixing with glyphosate.

Rate restrictions apply. Do not use rates higher than those indicated in the table below or injury could result.

| Crop   | Voraxor<br>(mL/ha)    | Water Volume<br>(L/ha) | MERGE Adjuvant<br>(L/ha) |
|--|-----------------------|------------------------|--------------------------|
| Lentils, canaryseed, oats, fall rye and triticale  | 48 <sup>1</sup>       | 50 – 100               | 0.5 – 1.0                |
| Field corn and soybeans  | 48 – 100 <sup>2</sup> | 50 – 100               | 0.5 – 1.0                |
| Wheat (including durum, spring and winter), peas (dried field), chickpeas, faba beans and barley | 48 – 144              | 50 – 100               | 0.5 – 1.0                |
| Chemfallow   | 48 – 72               | 50 – 100               | 0.5 – 1.0                |

<sup>1</sup> Rate restrictions apply. Do not use rates higher than 48 mL/ha or injury could result.

<sup>2</sup> Rate restrictions apply. Do not use rates higher than 100 mL/ha or injury could result.

## 3.0 Weeds Controlled

**Voraxor** applied pre-seed or pre-emergence to select crops will control weeds as listed below. For broad spectrum weed control including grass weeds, apply in combination with glyphosate.

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

**Voraxor** applied at 48 to 72 mL/ha provides rapid burndown control of weeds listed in the table below. Apply **Voraxor** at higher rates when weed populations are high and/or weed staging is late.

**Use Rate: 48 – 72 mL/ha**

| Weed  | Maximum Weed Stage |
|---|--------------------|
| Canada fleabane                                       | 8 leaf             |
| Cleavers  | 4-whorl stage      |
| Hemp-nettle   | 4 leaf             |
| Kochia  | 15 cm              |
| Lamb's-quarters                                       | 8 leaf             |
| Narrow-leaved hawk's beard                            | 8 cm               |
| Redroot pigweed                                       | 8 leaf             |
| Round-leaved mallow                                   | 8 leaf             |
| Russian thistle                                       | 15 cm              |
| Shepherd's purse                                      | 8 leaf             |
| Stinkweed   | 8 leaf             |
| Volunteer canola (all types including Roundup® Ready) | 8 leaf             |
| Wild buckwheat  | 8 leaf             |
| Wild mustard  | 8 leaf             |

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

**Voraxor** applied at 100 to 144 mL/ha provides rapid burndown of all weeds listed above and suppression of secondary flushes of weeds listed in the table below. Apply **Voraxor** at higher rates when high weed populations are expected or for longer residual weed control.

**Use Rate: 100 – 144 mL/ha**

| Weed            |
|-----------------|
| Cleavers        |
| Kochia          |
| Lamb's-quarters |
| Redroot pigweed |
| Stinkweed       |

| Weed   |
|--|
| Volunteer canola (all types including Roundup Ready) |
| Wild buckwheat                                       |
| Wild mustard   |

#### 4.0 Crop Specific Recommendations

##### 4.1 Voraxor + Glyphosate

**Voraxor** should be applied in tank mix with glyphosate for additional weed control. **Voraxor** is compatible with all liquid glyphosate formulations in which glyphosate is present as isopropylamine salt, di-ammonium salt or potassium salt. When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

##### Additional Weeds Control

**Voraxor** when tank mixed with glyphosate will provide rapid burndown of dandelion in addition to those weeds listed in section 3.0, **Weeds Controlled**.

**Use Rate: 48 to 72 mL/ha**

| Weed   | Maximum Weed Stage |
|--|--------------------|
| Dandelion (top growth burndown control only) | 15 cm              |

##### Lentils (including Clearfield® Lentils), Canaryseed, Oats, Fall Rye and Triticale

|                  |  |
|------------------|--|
| Timing           | Pre-seed or Pre-emergent   |
| Rate             | 48 mL/ha of <b>Voraxor</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + MERGE Adjuvant at 0.5 – 1 L/ha   |
| Water Volume     | 50 – 100 L/ha  |
| Weeds Controlled | See <b>Weeds Controlled</b> section of this label for a complete list of weeds controlled by <b>Voraxor</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>Voraxor</b> . |

|         |  |
|---------|--|
| Remarks | <b><u>Lentils:</u></b> 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. The user should contact BASF Agricultural Solutions Canada Inc. ("BASF") before applying any other soil applied herbicide with, before, or after applications of <b>Voraxor</b> + glyphosate. The addition of other soil applied herbicides may increase the sensitivity of lentils to <b>Voraxor</b> and injury may result. |
|---------|--|

### Corn (field) and Soybeans

|                  |  |
|------------------|--|
| Timing           | Pre-seed or Pre-emergent   |
| Rate             | 48 – 100 mL/ha of <b>Voraxor</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + MERGE Adjuvant at 0.5 – 1 L/ha   |
| Water Volume     | 50 – 100 L/ha  |
| Weeds Controlled | See <b>Weeds Controlled</b> section of this label for a complete list of weeds controlled by <b>Voraxor</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>Voraxor</b> .                               |
| Remarks          | Do not apply rates greater than 72 mL/ha pre-seed or pre-emergent to soybeans on coarse textured soils. When applying pre-emergent to soybeans, apply prior to when the soybeans cause the ground to crack and no more than 3 days after planting. |

### Peas (dried field), Chickpeas, Faba Beans, Wheat (spring, durum, winter) and Barley

|                  |  |
|------------------|--|
| Timing           | Pre-seed or Pre-emergent   |
| Rate             | 48 – 144 mL/ha of <b>Voraxor</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + MERGE Adjuvant at 0.5 – 1 L/ha   |
| Water Volume     | 50 – 100 L/ha  |
| Weeds Controlled | See <b>Weeds Controlled</b> section of this label for a complete list of weeds controlled by <b>Voraxor</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>Voraxor</b> . |

### Chemfallow

|        |   |
|--------|---|
| Timing | Chemfallow  |
| Rate   | 48 – 72 mL/ha of <b>Voraxor</b> + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + MERGE Adjuvant at 0.5 – 1 L/ha |

|                  |   |
|------------------|---|
| Water Volume     | 50 – 100 L/ha   |
| Weeds Controlled | See <b>Weeds Controlled</b> section of this label for a complete list of weeds controlled by <b>Voraxor</b> . Refer to the glyphosate label for weeds controlled in addition to those controlled by <b>Voraxor</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. If applying to chemfallow after August 1st, rotate only to the plant back crops listed in Section 8.0 of this label. |

## 4.2 Tank Mixes

**Voraxor** may be applied as a pre-seed or pre-emergent treatment to lentils, dry field peas, chickpeas, faba beans, field corn and soybeans in tank mix combination with Zidua® SC or Zidua SC and glyphosate. Tank mixing with Zidua SC provides early season residual suppression of grass and broadleaf weeds as listed below, in addition to the burndown weed control provided by **Voraxor** (see Section 3, Weeds Controlled). Refer to the glyphosate label for weeds controlled by glyphosate.

### Early Season Residual Suppression

| Annual Grasses             | Annual Broadleaf Weeds                               |
|----------------------------|--|
| Barnyard grass             | Cleavers <sup>1</sup>                                |
| Downy brome                | Common chickweed                                     |
| Foxtail (green and yellow) | Common waterhemp                                     |
| Japanese brome             | Eastern black nightshade <sup>1</sup>                |
| Wild oat                   | Kochia <sup>1</sup>                                  |
|                            | Lamb's-quarters                                      |
|                            | Redroot pigweed                                      |
|                            | Russian thistle <sup>1</sup>                         |
|                            | Shepherd's purse                                     |
|                            | Stinkweed <sup>2</sup>                               |
|                            | Volunteer canola (all types including Roundup Ready) |
|                            | Wild buckwheat                                       |
|                            | Wild mustard <sup>1</sup>                            |

<sup>1</sup> Including Group 2 resistant biotypes.

<sup>2</sup> **Voraxor** must be applied at a rate of 100 mL/ha in tank mix with Zidua SC.

## Application Instructions

Do not apply **Voraxor** or Zidua SC to lentils at rates higher than 48 or 120 mL/ha, respectively, or crop injury may result. Crop seeds must be planted a minimum 2.5 cm deep. When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Apply in 50 – 100 L/ha of water with MERGE Adjuvant at a rate of 0.5 – 1 L/ha.

| Crop   | Voraxor<br>(mL/ha) | Zidua SC <sup>1</sup><br>(mL/ha) | Glyphosate<br>(L/ha)                    |
|--|--------------------|----------------------------------|---|
| Lentils  | 48 <sup>2</sup>    | 120 <sup>3</sup>                 | 1.25 – 2.5<br>(360 g/L equivalent)      |
| Field corn and<br>soybeans                         | 48 – 100           | 120 - 240                        | 1.25 – 2.5 L/ha<br>(360 g/L equivalent) |
| Peas (dried field),<br>chickpeas and faba<br>beans | 48 – 144           | 120 - 240                        | 1.25 – 2.5 L/ha<br>(360 g/L equivalent) |

<sup>1</sup> Zidua SC application rates are for all soil types. Use the higher rate in the listed rate range for longer residual and under heavier weed populations.

<sup>2</sup> Do not apply **Voraxor** to lentils at a rate greater than 48 mL/ha or crop injury may result.

<sup>3</sup> Do not apply Zidua SC to lentils at a rate greater than 120 mL/ha or crop injury may result.

## 5.0 Mixing Instructions

1. Thoroughly clean the sprayer prior to use 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. Agitation should be running during the entire mixing procedure.
3. Add the correct amount of **Voraxor** and continue to agitate until thoroughly mixed.
4. Prior to adding glyphosate, add the correct amount of herbicide tank mix partner if required.
5. Add in glyphosate.
6. Add the correct amount of MERGE Adjuvant.
7. Continue agitation while filling the remainder of the tank with water necessary to fill the spray tank.
8. Maintain continuous and constant agitation throughout application until spraying is complete.

9. 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.
10. If a white residue starts to build up in the tank, drain it and clean the tank with strong detergent solution.
11. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Dispose of rinsate in accordance with provincial regulations.

## **6.0 Spraying Instructions**

For best results, use sprayers equipped with standard air induction or similar nozzles to ensure coverage. Apply in a water volume of 50-100 L/ha. For applications to dense weed infestations and thick canopies, use a higher water volume. Better coverage of the product results in enhanced control of weeds.

## **7.0 Livestock Feeding and Pre-harvest Intervals**

### **Pre-harvest Interval (PHI)**

There is no required preharvest interval between a pre-seed or pre-emergent application of **Voraxor** and the harvest of barley, canaryseed, field corn, peas, lentils, chickpeas, faba beans, soybeans, oats, fall rye, triticale and wheat.

### **Livestock Feeding After an Application of Voraxor**

- Field corn forage and silage can be harvested, used as feed or grazed 60 or more days after application.
- Legume forage (field peas, chickpeas, faba beans and lentils) may be used as feed or grazed 60 or more days after application.
- Wheat, barley, oat, fall rye and triticale forage and hay may be used as feed or grazed 30 or more days after application.
- Soybeans may be used as feed or grazed 60 or more days after application.

## **8.0 FOLLOW CROPPING**

The crops listed can be safely grown after a spring application of **Voraxor**. If applying to chemfallow after August 1st, rotate only to plant back crops.



| <b>Plant Back Crops</b><br>In case of crop failure, the following crops<br>can be planted in the same season <sup>1</sup>   | <b>Rotational Crops</b><br><b>ONLY</b> the following crops can be planted<br>anytime<br>in the following season  |
|---|--|
| Barley<br>Canaryseed <sup>2</sup><br>Chickpeas<br>Dry field peas<br>Faba beans<br>Field corn <sup>2</sup><br>Lentils <sup>2</sup><br>Soybean <sup>2</sup><br>Oats <sup>2</sup><br>Fall rye <sup>2</sup><br>Triticale <sup>2</sup><br>Wheat (spring, winter & durum) | Barley<br>Canaryseed<br>Canola<br>Chickpeas<br>Dry field peas<br>Dry common beans<br>Faba beans<br>Field corn<br>Flax<br>Lentils<br>Mustard<br>Soybean<br>Oats<br>Triticale<br>Wheat (spring, durum)<br>Winter wheat and fall rye may be grown<br>3 months after application |

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

<sup>2</sup> Rate restrictions apply. Lentils, canaryseed, oats, fall rye, triticale, field corn and soybeans can only be grown as plantback crops provided that a maximum product use rate of 48 mL/ha (lentils, canaryseed, oats, fall rye and triticale) and 100 mL/ha (field corn and soybeans) was applied in the previous crop.

## 9.0 Restrictions and Limitations

1. Wash sprayer thoroughly after use to avoid damage to the next crop sprayed.
2. Apply using ground equipment only.
3. This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide 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 applying any tank mix that is not specifically recommended on this label.

## 10.0 Resistance-Management Recommendations

For resistance management, **Voraxor** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **Voraxor** 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 **Voraxor** or other Group 14 herbicides within a growing season (sequence) 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).

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