

2024-1642  
2024-07-15

**\*\*Container label \*\***



**VARRO® FX**

|       |   |   |           |
|-------|---|---|-----------|
| GROUP | 2 | 4 | HERBICIDE |
|-------|---|---|-----------|

Emulsifiable Concentrate Herbicide

FOR POST-EMERGENCE WEED CONTROL IN SPRING AND WINTER WHEAT

AGRICULTURAL

ACTIVE INGREDIENTS:

|  |              |
|--|--------------|
| Thiencarbazone-methyl                        | 5 g a.i./L   |
| Fluroxypyr (present as 1-methylheptyl ester) | 118 g a.e./L |

REGISTRATION NO. 34848 PEST CONTROL PRODUCTS ACT

**CAUTION – EYE IRRITANT  
POTENTIAL SKIN SENSITIZER**

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 L - Bulk

Product Information: 1-888-283-6847

[www.cropscience.bayer.ca](http://www.cropscience.bayer.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.

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

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid contact with eyes, skin or clothing. Potential skin sensitizer. Avoid breathing spray mist. Wash thoroughly after handling and before eating, drinking or smoking. PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

**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 pilots have communication capabilities at each treatment site at the time of application.

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.

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. 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.

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** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.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 give **any** liquid to the person. 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.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

**ENVIRONMENTAL PRECAUTIONS:** This product contains active ingredients and aromatic petroleum distillates, which are toxic to aquatic organisms. Toxic to non-target terrestrial plants. Observe SPRAY BUFFER ZONES specified under DIRECTIONS FOR USE.

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.

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.

**STORAGE:** Store in a cool, dry place. DO NOT store at temperatures below -20°C. If frozen, allow to thaw and agitate thoroughly prior to use. Shake well before using. Store this product away from food or feed.

**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).

**Refillable Container:** 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 use 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 regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

®VARRO FX is a registered trademark of Bayer.

240417

**\*\*Booklet label \*\***

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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.

### SECTION 2: THE PRODUCT

VARRO® FX is a post-emergent herbicide that provides control of certain annual grass weeds and annual broadleaf weeds in spring and winter wheat.

## SAFETY AND HANDLING

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

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.** May irritate eyes. Avoid contact with eyes, skin or clothing. Potential skin sensitizer. Avoid breathing spray mist. Wash thoroughly after handling and before eating, drinking or smoking.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

**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 pilots have communication capabilities at each treatment site at the time of application.

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.

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. 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.

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.

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#### 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 centre or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control centre or doctor.</li><li>• Do not give <b>any</b> liquid to the person.</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 centre 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. Call a poison control centre or doctor for treatment advice.</li></ul>   |

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

#### SECTION 5: ENVIRONMENTAL PRECAUTIONS

This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms. TOXIC to non-target terrestrial plants. Observe SPRAY BUFFER ZONES specified under DIRECTIONS FOR USE.

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.

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.

## SECTION 6: STORAGE

Store in a cool, dry place. DO NOT store at temperatures below -20°C. If frozen, allow to thaw and agitate thoroughly prior to use. Shake well before using. Store this product away from food or feed.

## SECTION 7: DISPOSAL

### **Recyclable Container**

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2. Make the empty, rinsed container unsuitable for further use.

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**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 clean-up of spills.



## DIRECTIONS FOR USE

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

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

### SECTION 8: CROPS AND WEEDS

#### 8.1 CROPS AND APPLICATION TIMING

VARRO FX may be applied to the following crops when at the indicated growth stages:

| CROP   | RECOMMENDED GROWTH STAGE  | REMARKS  |
|--|---|--|
| <b>Spring wheat (incl. hard red spring, Canada Prairie spring, soft white spring and extra strong (utility) wheat)</b> | 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node)   | <ul style="list-style-type: none"><li>• Do not apply to crop that is under stress due to abnormal environmental conditions such as frost, extreme heat, low fertility, drought, flooding, or disease and/or insect damage as crop injury may result. Under drought conditions (spring wheat only):<ul style="list-style-type: none"><li>○ Do not spray VARRO FX if time between seeding and spraying exceeds 35 days (as drought hastens crop development)</li><li>○ Do not spray VARRO FX three days prior to or following cold temperatures (3°C or lower)</li></ul></li><li>• Do not treat wheat underseeded to legumes.</li><li>• Refer to section 9.1 for general reminders for successful operation.</li></ul> |
| <b>Winter wheat</b>  | Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node). |  |

## 8.2 APPLICATION RATE AND WEEDS CONTROLLED

Treatment with VARRO FX at 1 L/ha applied according to label recommendations will provide control of the following weed species:

| GRASS WEEDS                 | RECOMMENDED STAGE  |
|-----------------------------|--|
| Wild oats                   | 1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller |
| Green foxtail               |  |
| Barnyard grass              |  |
| Yellow foxtail <sup>2</sup> |  |
| Persian darnel <sup>2</sup> |  |
| Volunteer canary seed       | 1- to 6-leaves, up to emergence of 2 <sup>nd</sup> tiller    |
| Japanese brome <sup>3</sup> | 1- to 6-leaf stage   |

| BROADLEAF WEEDS                  | RECOMMENDED STAGE                    |
|----------------------------------|--------------------------------------|
| Cleavers                         | 1 to 9 whorls                        |
| Common chickweed                 | 1- to 4-leaf stage                   |
| Hemp-nettle                      | 1- to 6-leaf stage                   |
| Kochia <sup>1</sup>              | 2- to 8-leaf stage                   |
| Lamb's quarters                  | 1- to 6-leaf stage                   |
| Pale smartweed                   | 1- to 6-leaf stage                   |
| Redroot pigweed                  | 1- to 6-leaf stage                   |
| Round-leaved mallow <sup>2</sup> | 1- to 6-leaf stage                   |
| Russian thistle <sup>2</sup>     | 1- to 6-leaf stage, up to 10 cm tall |
| Shepherd's-purse                 | 1- to 6-leaf stage                   |
| Stinkweed                        | 1- to 6-leaf stage                   |
| Stork's-bill <sup>2</sup>        | 1- to 8-leaf stage                   |
| Volunteer canola <sup>4</sup>    | 1- to 6-leaf stage                   |
| Volunteer flax <sup>1</sup>      | 1 to 12 cm tall                      |
| Wild buckwheat                   | 1- to 6-leaf stage                   |
| Wild mustard                     | 1- to 6-leaf stage                   |

- 1 Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.
  - 2 Suppression only
  - 3 Control of spring-germinated Japanese brome. Suppression of overwintered Japanese brome. Best results are obtained after a pre-seed or burndown application with a glyphosate herbicide.
  - 4 Non ALS-tolerant
- For best results, apply to emerged, young, actively growing weeds according to the weed stages listed. Research has demonstrated that optimum wheat yield is obtained when weeds are removed early.
  - Under stressed conditions and/or heavy crop canopy, early application will result in improved weed control.
  - Weeds growing under adverse environmental conditions such as drought will be less susceptible to VARRO FX.

### 8.3 RAINFASTNESS

- Rainfall within 60 minutes of application may reduce effectiveness.

### 8.4 TANK-MIXTURES

**IMPORTANT NOTE:**

DO NOT tank-mix VARRO FX with herbicides, containing the following active ingredients:  
bicyclopyrone (e.g., Talinor Herbicide)  
tolpyralate (e.g., OnDeck Herbicide)

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 Bayer CropScience Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca) for information before applying any tank mix that is not specifically recommended on this label.

Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank-mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank-mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

**SPECIFIC TANK-MIX RECOMMENDATIONS:**

For control of weed species listed for VARRO FX alone plus additional broadleaf weeds or grasses, **VARRO FX may be tank mixed at 1 L/ha** with one of the following herbicides.

| Tank-mix Products (crops)   | Tank-mix Product Rates | Weeds Controlled (Growth stage)   |
|---|------------------------|---|
| <b>Infinity Herbicide</b><br>(Spring and winter wheat)                        | 0.83 L/ha              | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Infinity Herbicide label plus the following weeds: <ul style="list-style-type: none"> <li>• Chickweed (1 to 8-leaf stage)</li> <li>• Hemp-nettle (1 to 8-leaf stage)</li> <li>• Kochia (up to 15 cm in height)</li> <li>• Round-leaved mallow (1 to 6-leaf stage)</li> <li>• Volunteer flax (up to 15 cm in height)</li> <li>• Volunteer soybean (up to the 5<sup>th</sup> trifoliate leaf stage)</li> </ul> |
| <b>Thumper Emulsifiable Selective Weedkiller</b><br>(Spring and winter wheat) | 1 L/ha                 | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Thumper Herbicide label.   |
| <b>Buctril M</b><br>(Spring and winter wheat)                                 | 1 L/ha                 | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Buctril M label.   |
| <b>MCPA-ester*</b><br>(Spring and winter wheat)                               | 350 g a.e./ha          | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the MCPA-ester label.  |
|   | 560 g a.e./ha          | Above weeds plus the following weeds: <ul style="list-style-type: none"> <li>• Volunteer canola, incl. all herbicide-tolerant canola varieties (2 to 4-leaf stage)</li> <li>• Green smartweed (suppression) (2 to 4-leaf stage)</li> </ul>  |

| Tank-mix Products (crops)   | Tank-mix Product Rates                         | Weeds Controlled (Growth stage)   |
|---|--|---|
| <b>2,4-D-ester*</b><br>(Spring and winter wheat)  | 335 g a.e./ha                                  | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the 2,4-D-ester label.   |
|   | 420 g a.e./ha                                  | Above weeds plus the following weeds: <ul style="list-style-type: none"> <li>• Field horsetail (top growth control only)</li> <li>• Hoary cress (top growth control only)</li> </ul>  |
|   | 560 g a.e./ha                                  | Above weeds plus the following weeds: <ul style="list-style-type: none"> <li>• Chickweed (Suppression) (up to 8 cm in height)</li> <li>• Perennial sow thistle (suppression) (top growth control only)</li> <li>• Round-leaved mallow (1 to 6-leaf stage)</li> <li>• Stork's bill (1 to 8-leaf stage)</li> </ul>  |
| <b>Curtail M Herbicide*</b><br>(Spring wheat only)  | 1.5 - 2.0 L /ha                                | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Curtail M label plus the following weeds: <ul style="list-style-type: none"> <li>• Stork's bill (1 to 8-leaf stage)</li> </ul>   |
| <b>Barricade SG</b><br>(plus one of the labelled adjuvant systems)<br><br>(Spring and winter wheat)                 | 30 g/ha  | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Barricade SG label plus the following weeds: <ul style="list-style-type: none"> <li>• Canada thistle (up to 15 cm in height)</li> <li>• Dandelion (up to 20 cm in diameter)</li> <li>• Scentless chamomile (up to 10 cm in height)</li> </ul>  |
| <b>Barricade SG</b><br>+<br><b>MCPA Ester 500</b><br>-or-<br><b>MCPA Ester 600</b><br><br>(Spring and winter wheat) | 30 g/ha<br>+<br>0.56 L/ha<br>-or-<br>0.47 L/ha | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Barricade SG label for the labelled tank-mix of Barricade SG + MCPA Ester 500 or MCPA Ester 600 plus the following weeds: <ul style="list-style-type: none"> <li>• Canada thistle (up to 15 cm in height)</li> <li>• Dandelion (up to 20 cm in diameter)</li> <li>• Scentless chamomile (up to 10 cm in height)</li> </ul> |

| Tank-mix Products (crops)   | Tank-mix Product Rates              | Weeds Controlled (Growth stage)  |
|---|-------------------------------------|--|
| <b>Refine SG Herbicide</b><br>(plus one of the labelled adjuvant systems)<br><br>(Spring and winter wheat)                            | 30 g/ha                             | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Refine SG label.  |
| <b>Refine SG Herbicide</b><br>+<br><b>MCPA-ester</b><br>(plus one of the labelled adjuvant systems)<br><br>(Spring and winter wheat)  | 30 g/ha<br>+<br>280 g a.e./ha       | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Refine SG label plus the following weeds: <ul style="list-style-type: none"> <li>• Volunteer imazamox and imazethapyr tolerant canola (e.g., Clearfield® canola; 2-4 leaf stage)</li> <li>• Dandelion (spring and fall rosettes, less than 15 cm in diameter).</li> </ul> |
|   | 30 g/ha<br>+<br>350 – 560 g a.e./ha | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Refine SG Herbicide label for the labelled tank-mix of Refine SG Herbicide + MCPA ester.  |
| <b>Refine SG Herbicide</b><br>+<br><b>2,4-D-ester</b><br>(plus one of the labelled adjuvant systems)<br><br>(Spring and winter wheat) | 30 g/ha<br>+<br>395 - 530 g a.e./ha | See WEEDS CONTROLLED table for VARRO FX plus those weeds listed on the Refine SG Herbicide label for the labelled tank-mix of Refine SG Herbicide + 2,4-D ester.   |

\*Refer to tank-mix partner label for weed/rate chart.

## **SECTION 9: APPLICATION INFORMATION AND PRECAUTIONS**

### **9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION**

- Apply only once per season with ground or aerial equipment.
- Do not use VARRO FX if another Group 2 grass herbicide has been previously applied in the same season, with the exception of Olympus Herbicide, where sufficient data are available to support such use.
- Do not use another Group 2 grass herbicide following an application of VARRO FX in the same season.
- For best results, apply to emerged, young, actively growing weeds.
- VARRO FX will have an effect on weeds that are larger than the recommended leaf stage; however, the speed of activity and level of control may be reduced.
- Under cool and/or dry conditions, activity may be reduced or delayed. If weeds are under stress due to abnormal environmental conditions, delay application until stress passes and after weeds have resumed active growth. Weed control may also be reduced if application is made when weeds are dust covered or in the presence of heavy dew, fog, or mist/rain.
- Do not apply to crop that is under stress due to abnormal environmental conditions such as frost, extreme heat, low fertility, drought, flooding, or disease and/or insect damage as crop injury may result.
- Do not treat wheat underseeded to legumes.
- Follow directions under Section 8 for the correct rate and timing of application.
- Avoid overlapping; shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over-application.
- Avoid contact with desirable plants or crops either from direct application or from spray drift as severe damage may occur.
- Do not allow this chemical to drift on to other crops, especially canola, tame oats, or other non-target crops.

### **9.2 APPLICATION METHODS**

#### **GROUND APPLICATION**

- Apply in a spray volume of 46.8 – 93.5 L/ha unless otherwise specified in tank-mix partner section of this label at 207-345 kPa (30 – 50 PSI) pressure to ensure proper weed coverage.
- Flat fan nozzles of 80° or 110° are recommended for optimum coverage.
- Do not use floodjet or controlled droplet application equipment or Sprafoil® equipment.
- Nozzles may be oriented 45° forward to enhance crop penetration and to give better weed coverage.
- Uniform, thorough coverage is important to obtain consistent weed control. Higher water volumes should be used under dense crop and weed canopies to ensure thorough coverage of the target weeds.

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.

## **AERIAL APPLICATION**

- Apply VARRO FX alone or in tank mixes (ONLY with the recommended tank mix partners that are registered for aerial use) in no less than 28 litres of water per hectare at a pressure no less than 300 kPa.

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 S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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.

### **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 Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

**Product Specific Precautions:** Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following: Apply the recommended rate in a minimum spray volume of 28 litres per hectare.

## **9.3 SPRAY BUFFER ZONES**

A spray buffer zone is NOT required for uses with hand-held application equipment permitted in this label.

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), 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                    |             | Spray 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         | Spring and winter wheat |             | 1   | 1                | 1                                    | 1                | 3                    |
| Aerial                | Spring and winter wheat | Fixed wing  | 1   | 1                | 1                                    | 1                | 55                   |
|                       |                         | Rotary wing | 1   | 1                | 1                                    | 1                | 55                   |

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.

#### 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 VARRO FX. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of VARRO FX, 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. A field bioassay must be conducted the year prior to growing any other crop of interest to confirm crop safety.

| CROP   | REPLANTING INTERVAL |
|--|---------------------|
| Alfalfa                                      | 10 months           |
| Barley, spring                               | 10 months           |
| Canola                                       | 10 months           |
| Corn, field                                  | 10 months           |
| Dry bean                                     | 10 months           |
| Flax, including low linolenic acid varieties | 10 months           |
| Lentils                                      | 10 months           |
| Mustard                                      | 10 months           |
| Oats, spring                                 | 10 months           |
| Peas, field                                  | 10 months           |
| Soybeans                                     | 10 months           |
| Sunflowers                                   | 10 months           |
| Rye  | 10 months           |
| Timothy                                      | 10 months           |
| Triticale (spring and winter)                | 10 months           |
| Wheat (spring, durum and winter)             | 10 months           |

**ADDITIONAL ROTATIONAL CROP RECOMMENDATIONS  
– EASTERN CANADA ONLY**

| <b>CROP</b> | <b>REPLANTING INTERVAL</b> |
|-------------|----------------------------|
| Potato      | 22 months                  |
| Sugarbeet   | 22 months                  |

**SECTION 10: PRE-HARVEST AND PRE-GRAZING/FEEDING INTERVALS**

- DO NOT graze the treated crops or cut for forage within 7 days or cut for hay within 30 days of application.
- DO NOT harvest spring wheat for grain or straw within 60 days of application.
- DO NOT harvest winter wheat for grain or straw within 72 days of application.
- If tank mixing, always respect the maximum intervals stated on the labels of all the tank mix products.

**SECTION 11: MIXING INSTRUCTIONS**

VARRO FX must be applied with properly calibrated and clean sprayer equipment. VARRO FX is specially formulated to mix readily in water. Prior to adding VARRO FX 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 VARRO FX, as specified under Section 8, directly to the spray tank. Maintain sufficient agitation during both mixing and application.
3. Fill the spray tank with balance of water required.
4. Maintain sufficient agitation during both mixing and application of VARRO FX.

**SECTION 12: SPRAYER CLEANUP**

Before and after using VARRO FX 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 rinsings 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, please note that VARRO FX is both a Group 2 and 4 herbicide. Any weed population may contain or develop plants naturally resistant to Group 2 and/or 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields. 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 VARRO FX or other Group 2 and/or 4 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 using 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 via internet at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca) or telephone at 1-888-283-6847.

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