

Container



VARRO™ Herbicide

GROUP	2	HERBICIDE
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FOR POSTEMERGENCE WEED CONTROL IN SPRING, DURUM AND WINTER WHEAT

SUSPENSION

AGRICULTURAL

ACTIVE INGREDIENT: thienencarbazone-methyl 10 g/L

REGISTRATION NO. 29070 PEST CONTROL PRODUCTS ACT

WARNING - SKIN AND EYE IRRITANT

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

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. Avoid breathing vapors, or spray mist. Causes eye irritation. DO NOT get in eyes. May irritate skin. Avoid contact with skin. Wash thoroughly after handling. Remove contaminated clothing and wash clothing before reuse.

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

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and Other handlers must wear long-sleeved shirts, long pants, and shoes plus socks. In addition, during mixing/loading, clean up and repair, workers must wear chemical-resistant gloves such as barrier laminate, or butyl rubber > 14 mils or nitrile rubber > 14 mils, and 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.

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.

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. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS: This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms and non-target terrestrial plants. Refer to DIRECTIONS FOR USE (Section 9) 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. To prevent contamination, store this product away from food or feed. Store product in original container only and keep closed. Store away from other pesticides, feeds, seeds, fertilizers, food, or feed. Do not use or store in or around the home.

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 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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Booklet



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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™ Herbicide is a post-emergent herbicide that provides control of certain annual grass weeds and annual broadleaf weeds in Spring Wheat (hard red spring, Canada Prairie spring, soft white spring, and extra strong or utility), Durum Wheat and Winter Wheat.

SAFETY AND HANDLING

SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Avoid breathing vapors, or spray mist. Causes eye irritation. DO NOT get in eyes. May irritate skin. Avoid contact with skin. Wash thoroughly after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and Other handlers must wear long-sleeved shirts, long pants, and shoes plus socks. In addition, during mixing/loading, clean up and repair, workers must wear chemical-resistant gloves such as barrier laminate, or butyl rubber > 14 mils or nitrile rubber > 14 mils, and 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.

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

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.

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.

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">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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.

SECTION 5: ENVIRONMENTAL HAZARDS AND INFORMATION

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms and non-target terrestrial plants. Refer to DIRECTIONS FOR USE (Section 9) 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. To prevent contamination, store this product away from food or feed. Store product in original container only and keep closed. Store away from other pesticides, feeds, seeds, fertilizers, food, or feed. Do not use or store in or around the home.

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:

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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 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**

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

CROP	RECOMMENDED GROWTH STAGE	REMARKS
Spring Wheat (incl. hard red spring, Canada Prairie spring, soft white spring and extra strong (utility) wheat)	1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node)	<ul style="list-style-type: none">• 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 and durum wheat only):<ul style="list-style-type: none">○ Do not spray VARRO Herbicide if time between seeding and spraying exceeds 35 days (as drought hastens crop development)○ Do not spray VARRO Herbicide three days prior to or following cold temperatures (3°C or lower)• Do not treat wheat underseeded to legumes.• Refer to section 9.1 for general reminders for successful operation.
Durum Wheat		
Winter Wheat	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 Herbicide at 0.5 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 rd tiller
Green foxtail	
Barnyard grass	
Yellow foxtail ¹	
Persian Darnel ¹	
Volunteer canary seed	1 to 6-leaves, up to emergence of 2 nd tiller
Japanese Brome ²	1 to 6-leaf stage

BROADLEAF WEEDS	RECOMMENDED STAGE
Wild mustard	1 to 6-leaf stage
Redroot pigweed	1 to 6-leaf stage
Stinkweed	1 to 6-leaf stage
Shepherd's-purse	1 to 6-leaf stage
Hemp-nettle	1 to 6-leaf stage
Volunteer canola ³	1 to 6-leaf stage
Cleavers	1 to 6 whorls
Pale Smartweed	1 to 6-leaf stage
Wild buckwheat	1 to 6-leaf stage
Lamb's Quarters ¹	1 to 6-leaf stage
Russian Thistle ¹	1 to 6-leaf stage, up to 10 cm tall
Round-leaved mallow ¹	1 to 6-leaf stage

1 Suppression only

2 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.

3 non ALS-tolerant

* Refer to section 8.3 for additional weed control information

- 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 Herbicide.

8.3 ADDITIVES

8.3.1 Non-ionic Surfactant (NIS) – For Use in Spring and Durum Wheat

When VARRO Herbicide is applied alone, a non-ionic surfactant (Agral 90, AgSurf or Surf 92) at 0.25% may be added for

- improved and more consistent weed control overall.
- more consistent control of wild oat in areas of heavy infestation.
- more consistent control of Japanese brome.

8.3.2 Ammonium sulphate (AMS) – For Use in Spring Wheat Only

When VARRO Herbicide is applied alone, Ammonium sulphate at 500 g/ha (99%) or 1 L/ha (49% solution) or 1.25 L/ha (40% solution) may be added for

- improved and more consistent weed control overall.
- more consistent control of wild oat in areas of heavy infestation.
- more consistent control of Japanese brome.

If using an ammonium sulphate product with a different concentration, adjust the rate accordingly.

NOTES - ADDITIVES:

Do not tank mix with any other adjuvants, chemical additives or fertilizers unless recommended on this label.

When tank mixing additives/adjuvants with VARRO Herbicide, minor crop injury may be observed. These symptoms are temporary and do not impact crop yield.

8.4 RAINFASTNESS

- Rainfall within 60 minutes of application may reduce effectiveness.

8.5 TANK MIXTURES

For control of weed species listed for VARRO Herbicide alone plus additional broadleaf weeds or grasses, VARRO Herbicide may be tank mixed with one of the following herbicides. Consult the label of the tank mix partner(s) 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.

RECOMMENDED TANK-MIXTURES IN SPRING WHEAT

PRODUCTS	PRODUCT RATES [Amount/ha]
VARRO Herbicide	0.5 L
plus MCPA-ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus 2,4-D-ester*	up to 350 g ae/ha

VARRO Herbicide	0.5 L
plus Buctril M	1.0 L
VARRO Herbicide	0.5 L
plus Thumper	1.0 L
VARRO Herbicide	0.5 L
plus INFINITY HERBICIDE**	0.83 L
VARRO Herbicide	0.5 L
plus Attain Herbicide Tank Mix	0.6 L/ha Attain A 1.0 L/ha Attain B
VARRO Herbicide	0.5 L
plus Curtail M*	1.5 L
VARRO Herbicide	0.5 L
plus Refine SG	30 g/ha
VARRO Herbicide	0.5 L
plus Refine SG	30 g/ha
plus MCPA-Ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus Refine SG	30 g/ha
plus 2,4-D – Ester*	up to 350 g ae/ha

RECOMMENDED TANK-MIXTURES IN SPRING WHEAT (cont.'d)

PRODUCTS	PRODUCT RATES [Amount/ha]
VARRO Herbicide	0.5 L
plus Refine DF	20 g/ha
VARRO Herbicide	0.5 L
plus Refine DF	20 g/ha
plus MCPA-Ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus Refine DF	20 g/ha

plus 2,4-D – Ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus Frontline Herbicide Tank Mix	100 mL/ha Frontline A 0.7 L/ha Frontline B

RECOMMENDED TANK-MIXTURES IN DURUM WHEAT

PRODUCTS	PRODUCT RATES [Amount/ha]
VARRO Herbicide	0.5 L
plus MCPA-ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus 2,4-D-ester*	up to 350 g ae/ha
VARRO Herbicide	0.5 L
plus INFINITY HERBICIDE**	0.83 L
VARRO Herbicide	0.5 L
plus Buctril M	1.0 L
VARRO Herbicide	0.5 L
plus Thumper	1.0 L

RECOMMENDED TANK-MIXTURES IN WINTER WHEAT

PRODUCTS	PRODUCT RATES [Amount/ha]
VARRO Herbicide	0.5 L
plus INFINITY HERBICIDE**	0.83 L
VARRO Herbicide	0.5 L
plus Thumper	1.0 L

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

** The tank-mixture of VARRO plus INFINITY HERBICIDE provides control of round-leaved mallow from the 1 to 6-leaf stage.

RECOMMENDED TANK-MIXTURE IN SPRING, DURUM AND WINTER WHEAT

PRODUCTS	PRODUCT	WEEDS	GROWTH STAGE
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	RATES	CONTROLLED	TIMING
VARRO Herbicide + LUXXUR A Herbicide	0.5 L/ha + 15 g/ha	Weeds controlled by VARRO Herbicide alone plus Canada thistle ^{1,2} Perennial sowthistle ^{1,2} Dandelion Scentless chamomile Narrow-leaved hawk's-beard Lamb's quarter ¹ Cow cockle Round-leaved mallow	Wheat (spring and durum) may be treated from 2 to 6 leaf stage on main stem, plus 3 tillers, but prior to jointing (presence of first node). Winter wheat may be treated when the majority of plants have two leaves to full tillering, but prior to jointing (presence of first node). Weed growth stages: Canada thistle and Perennial Sowthistle ^{1,2} : up to 15 cm in height. Dandelion: up to 20 cm in diameter; Scentless chamomile: up to 10 cm in height; Narrow-leaved hawk's-beard: prior to bolting; Lamb's quarter ¹ and cow cockle: up to 10 cm in height. Round-leaved mallow: 1- to 6-leaf stage.

1. For control of Canada thistle, perennial sowthistle and lamb's quarter, the addition of an additive is required as follows:
 - a. **Spring and winter wheat:** add a non-ionic surfactant (Agral 90, AgSurf or Surf 92) at 0.25% or add ammonium sulphate at 500 g/ha (99%) or 1 L/ha (49% solution) or 1.25 L/ha (40% solution). If using an ammonium sulphate product with a different concentration, adjust the rate accordingly.
 - b. **Durum wheat:** add a non-ionic surfactant (Agral 90, AgSurf or Surf 92) at 0.25%.
2. Season long control, with some regrowth in the fall.

SECTION 9: APPLICATION INSTRUCTIONS, USE LIMITATIONS AND ENVIRONMENTAL PRECAUTIONS

9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION AND ADDITIONAL ENVIRONMENTAL PRECAUTIONS

- Apply only once per season with ground or aerial equipment.
- Do not use VARRO Herbicide 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 Herbicide in the same season.
- For best results, apply to emerged, young, actively growing weeds.
- VARRO Herbicide 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.

9.1.1 ADDITIONAL ENVIRONMENTAL PRECAUTIONS:

- 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.
- Do not overspray non-target terrestrial or aquatic habitats. Do not contaminate aquatic habitats when cleaning and rinsing spray equipment or containers.
- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- 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.

9.2 GROUND AND AERIAL APPLICATION

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)

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

AERIAL APPLICATION

- Apply VARRO Herbicide 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.
- 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 on this label.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aerial Use Precautions

- Read and understand the entire label before opening this product. If you have questions, call Bayer at 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative.
- 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*.
- Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems.
- Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.
- Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist).
- Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelterbelt) or aquatic habitat.
- Do not apply when wind speed is greater than 16 km/h at a flying height at the site of application. Do not apply with spray droplets smaller than ASAE medium classification.
- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. To reduce drift caused by turbulent wingtip vortices, the nozzle distributions along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Aerial Operator Precautions:

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilots have communication capabilities at each treatment site at the time of application.

- The field crew and the mixer/loaders must wear chemical resistant gloves, long-sleeved shirt and long pants, shoes plus socks and protective eyewear (safety glasses).
- 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.

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.

9.3 BUFFER ZONES

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

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Buffer Zones (metres) Required for the Protection of:		
	Freshwater Habitat of Depths:		Terrestrial Habitat
	Less than 1 m	Greater than 1 m	
Field sprayer	1	0	1
Aerial (fixed wing)	1	0	30
Aerial (rotary wing)	1	0	30

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 VARRO Herbicide. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of VARRO Herbicide, 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
Canaryseed	10 months
Canola	10 months
Chickpeas	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
Timothy	10 months
Wheat, spring, durum and winter	10 months

ADDITIONAL ROTATIONAL CROP RECOMMENDATIONS – EASTERN CANADA ONLY

CROP	REPLANTING INTERVAL
Corn, field	Immediate plant back*
Winter wheat	4 months
Potato	22 months
Sugarbeet	22 months
Tomato	22 months

* In the event that wheat crop treated with VARRO Herbicide 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 within 7 days or cut for hay within 30 days of application.
- DO NOT harvest spring or durum wheat for grain or straw within 60 days of application.
- DO NOT harvest winter wheat for grain or straw within 72 days of application.
- DO NOT re-enter 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

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

5. Maintain sufficient agitation during both mixing and application of VARRO Herbicide.

VARRO Herbicide 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.

SECTION 12: SPRAYER CLEANUP

Before and after using VARRO Herbicide 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, VARRO Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to VARRO Herbicide and other Group 2 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 VARRO Herbicide or other Group 2 herbicides 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.
3. Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
4. Monitor treated weed populations for resistance development.

5. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
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 or telephone at 1-888-283-6847.

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