This label has been updated according to the re-evaluation decision for Flucarbazone RVD2023-03. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 02-09-2025 in accordance with the phase out period set out in the reevaluation/special review decision for Flucarbazone RVD2023-03. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

# [CONTAINER LABEL FOR BOTTLE]

Group 2, 14 Herbicide

# **INFERNO® TRIO Herbicide**

# EMULSIFIABLE CONCENTRATE HERBICIDE

# COMMERCIAL (AGRICULTURAL)

# FOR PREPLANT AND PREEMERGENCE APPLICATION ON SPRING WHEAT (EXCLUDING DURUM WHEAT)

# FOR SALE AND USE IN PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

# **ACTIVE INGREDIENT:**

Flucarbazone (present as flucarbazone-sodium)1	41 g/L
Florasulam	50 g/L
Carfentrazone-ethyl1	75 g/L
Warning contains allergen (sulfites)	U

# **REGISTRATION NUMBER 33273 PEST CONTROL PRODUCTS ACT**

# CAUTION: SKIN IRRITATION POTENTIAL SKIN SENSITIZER

# READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

# KEEP OUT OF REACH OF CHILDREN

# NET CONTENTS: 250 mL to BULK

For Product Use Information Call 1-800-438-6071

UPL AgroSolutions Canada Inc.

# PO Box 12219

Research Triangle Park, NC 27709

FOR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800 424-9300.

### 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.

#### PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR

May irritate skin. Avoid contact with skin.

#### **PROTECTIVE CLOTHING**

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

Read and follow handling precautions and protective clothing recommendations ontank-mix partner and surfactant tank-mix partner labels.

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

Wash hands 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 personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 equipmentand sprayer settings.

#### FIRST AID

**IF SWALLOWED**: Call a poison control centre or doctor immediately for treatment advice. Do not give any liquid to the person. Do not inducevomiting 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 IN EYES**: Hold eye open and rinse slowly and gently with water for 15-20minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre ordoctor for treatment advice.

**IF INHALED**: Move person to fresh air. If person is not breathing, call 911 or anambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor forfurther treatment advice.

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

### **TOXICOLOGICAL INFORMATION**

No specific antidote is available. Treat the patient symptomatically. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

### **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 in cool, dry place and in such a manner as to prevent cross contamination with other pesticides or fertilizers. Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area.

**SPILL CLEAN-UP:** Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills. Follow safety precautions as directed for handling the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

#### DISPOSAL

**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:

Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. 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 Containers:

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

#### Refillable containers

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.

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.

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[BOOKLET LABEL FOR BOTTLE]

Group 2, 14 Herbicide

# INFERNO® TRIO Herbicide

EMULSIFIABLE CONCENTRATE HERBICIDE

# COMMERCIAL (AGRICULTURAL)

# FOR PREPLANT AND PREEMERGENCE APPLICATION ON SPRING WHEAT (EXCLUDING DURUM WHEAT)

FOR SALE AND USE IN PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

ACTIVE INGREDIENT:	
Flucarbazone (present as flucarbazone-sodium)	141 g/L
Florasulam	50 g/L
Carfentrazone-ethyl	175 g/L
Warning contains allergen (sulfites)	Ū

# REGISTRATION NUMBER 33273 PEST CONTROL PRODUCTS ACT

# CAUTION: SKIN IRRITATION POTENTIAL SKIN SENSITIZER

# READ THE LABEL AND BOOKLET BEFORE USING KEEP OUT OF REACH OF CHILDREN

# NET CONTENTS: 250 mL to BULK

For Product Use Information Call 1-800-438-6071

UPL AgroSolutions Canada Inc.

# PO Box 12219

**Research Triangle Park, NC 27709** 

FOR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure or accident)CALL CHEMTREC: 1-800 424-9300 or +1-703-527-3887.

#### 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.

### **PRODUCT INFORMATION**

**INFERNO<sup>®</sup> TRIO Herbicide** is a broad-spectrum herbicide for preplant and preemergence applications to spring wheat (hard red spring, Canada Prairie spring, softwhite spring, and extra strong or utility), excluding durum wheat.

# INFERNO TRIO Herbicide when applied alone (without glyphosate) must be tank- mixed with a surfactant listed on this label.

**INFERNO TRIO Herbicide** is absorbed by foliage and roots of grass and broadleaf weeds. These weeds cease growth soon after application, removing the competitive effects of susceptible weeds. However, complete weed control may not be seen for one to two weeks.

# DIRECTIONS FOR USE

#### **General Precautions**

Read the entire DIRECTIONS FOR USE before using **INFERNO TRIO Herbicide**.

- Ground application only, do not apply by air.
- Do not apply treatments if it is raining or if rainfall is expected within one (1) hour after application.
- Do not mix, load or clean spray equipment within 10 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.
- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.
- Do not allow this chemical to drift on to other crops or other non-target crops.
- Observe minimum interval to harvest of 80 days after treatment.
- Do not treat wheat underseeded to legumes.
- Do not freeze.
- Apply registered rates of glyphosate when tank-mixed with **INFERNO TRIOHerbicide** for preplant or preemergence application for control of label weeds

#### **Ground Application**

- Apply in a spray volume of 50-100 L/ha (22.5-45 L/acre or 5-10 gallons/acre) 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 nozzle or control droplet application equipment. Nozzles may be oriented45° forward to enhance crop penetration and to give better weed coverage.

<u>Field sprayer application</u>: **DO NOT** apply during periods of dead calm. Avoid applicationof this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: DO NOT apply using aerial application equipment.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-438-6071 or obtain technical advice from the distributor or your provincial agricultural representative.

#### **Spray Buffer Zones**

Spot treatments using hand-held equipment **DO NOT** require a spray buffer zone.

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 freshwater 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:	
		Aquatic Habitat	Terrestrial Habitat
Field sprayer	Wheat	5	30

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 Pesticide portion of the Canada.ca web site.

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.

# TIMING OF APPLICATION

**INFERNO TRIO Herbicide** can be applied as a preplant or preemergent application to spring wheat (excluding durum). For optimal weed control, apply anytime between 1 week prior to planting and crop emergence.

Use of **INFERNO TRIO Herbicide** as a preplant or preemergence application allows for early weed removal and reduced weed competition with wheat.

Do not apply more than 15 g ai/ha of flucarbazone sodium herbicide, the equivalent of one application, or 100 mL/ha of **INFERNO TRIO Herbicide**, preplant or preemergence per growing season.

Apply to young, emerged, actively growing weeds that are less than 10 cm tall or across.

For best results apply to weeds that are actively growing. Wheat exposed to water-logged or saturated soils, temperature extremes such as hot or cold, drought, lowfertility or plant disease after application could result in unacceptable injury symptoms. Weed control may also be reduced by these same conditions or if heavy weed infestations exist or when applications are made outside the applicationrecommendations.

PRODUCT RATES AND WEEDS CONTROLLED				
Product	Rate	Weeds Controlled and Suppressed		
INFERNO TRIO Herbicide	100 mL/ha + 0.25 % v/v non-ionic surfactant	Controlled: Canola <sup>2, 3</sup> (volunteer), Carpetweed, Cleavers, Cocklebur, Flixweed,Green foxtail, Kochia <sup>3, 4</sup> , Lamb's quarters, Redroot pigweed <sup>2</sup> , Russian thistle, Shepherd's purse, Stinkweed, Wild Buckwheat, Wild mustard. Suppressed: Hempnettle, Narrow-leaved hawk's-beard, Wild oat, Dandelion.		
<b>INFERNO TRIO Herbicide</b> + Glyphosate	100 mL/ha + 450 gae/ha of glyphosate	<b>Controlled</b> : Those weeds controlled by <b>INFERNO TRIO Herbicide</b> alone, plus: Barley (volunteer), Barnyard grass, Chickweed, Corn spurry, Cow cockle, Common ragweed, Dandelion <sup>1</sup> , Downy brome, Eastern black nightshade, Giant foxtail, Lady's-thumb, Night- flowering catchfly,Persian darnel, , Round-leaved mallow, Smartweed (green and Pennsylvania), Smooth pigweed, Stork's bill, Wild Tomato, Velvetleaf, Wheat (volunteer), Wild oat.		

<sup>1</sup> top growth control only.

<sup>2</sup> Control of weeds that emerge within 7 days following application.

<sup>3</sup> Including glyphosate-tolerant varieties or glyphosate resistant weeds

<sup>4</sup> Including group 2 resistant weeds

Unacceptable crop injury may occur if applied to soils with organic matter less than 2.5% or soil pH greater than 8. Unacceptable crop injury may occur if applied to soilssaturated with water.

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.

### **GLYPHOSATE TANK-MIX**

**INFERNO TRIO Herbicide** may be tank-mixed with glyphosate herbicide present as isopropylamine, diammonium, or potassium salt when applied preplant or post-plant preemergence. Refer to the appropriate product label for use directions.

#### SURFACTANT TANK-MIX

When **INFERNO TRIO Herbicide** is applied alone, without glyphosate, include a non- ionic surfactant such as Ag-Surf, Agral 90, ProSurf, etc.

### MIXING INSTRUCTIONS

- 1. Ensure the spray tank is clean. In-line strainers and nozzle screens should beclean and 50-mesh or coarser.
- 2. Fill the spray tank 1/3 to 1/2 full with clean water and begin agitation or bypass.
- 3. Add the appropriate **INFERNO TRIO Herbicide** rate directly to the spray tank. Maintain sufficient agitation during both mixing and application.
- 4. Add the Tank-mix partner if required.
- 5. Add the surfactant, if required, and then complete filling tank with balance ofwater needed.

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.

# SPRAYER CLEAN-UP

- 1. Drain the tank and thoroughly rinse spray tank, boom and hoses with clean water. Pay particular attention to flushing out any visible deposits.
- 2. Fill the tank with clean water and 1 % v/v (1 L/100 L) household ammonia. Flush the hoses, boom and nozzles with the cleaning solution. Circulate for at least 15 minutes. Flush hoses, boom and nozzles once more, then drain the tank.
- 3. Clean nozzles and screens in a separate container using the ammonia and water
- 4. Repeat #2.
- 5. Rinse tank, boom and hoses with clean water.
  - Do not clean sprayer near desirable vegetation, wells, or other water sources.
  - Dispose of all rinsings in accordance with provincial regulations.
  - Check tank-mix partner label for any additional clean-up procedures.

### **ROTATIONAL CROPS**

Fields can be seeded to winter wheat the fall after application. The following crops may be planted the following year or fields can be summerfallowed.

Soil Zones and Rotational Crops					
Gray-Wooded	Black	Dark Brown	Brown		
Spring wheat Barley Canola Field peas*	Spring wheat Barley Canola Field peas* Field bean Flax Durum wheat Soybean Sunflower	Spring wheat Barley Canola Field peas* Flax Durum wheat Soybean Sunflower	Spring wheat		
*Field peas may be grown the year following <b>INFERNO TRIO Herbicide</b> application providing thefollowing are all met:					

- 1. Soil pH must be below 7.5,
- 2. Organic matter must be above 4 %, and
- 3. Precipitation must be equal to or above 10 year average (minimum 100 mm within 60 days of application in year of application).

As **INFERNO TRIO Herbicide** is degraded by soil microbes, environmental conditions that decrease microbial activity must be considered when making rotational cropping decisions. These environmental conditions include prolonged drought and/or cold temperatures within the following cropping season, as well as soils with both low OM (less than 2 %) and high pH (greater than 7.5). If these conditions exist, a soil bioassay may be necessary to ensure rotational crop safety.

Do not plant crops other than those listed above in the year following application of **INFERNO TRIO Herbicide** on wheat.

# **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, **INFERNO TRIO Herbicide** is a Group 2 Herbicide and Group 14 Herbicide. Any weed population may contain or develop plants naturally resistant to **INFERNO TRIO Herbicide** and other Group 2 and 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 **INFERNO TRIO Herbicide** or other Group 2 and 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 targetweed(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 seedling

rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other chemical control 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 movementof 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 UPL AgroSolutions Canada Inc at 1-800-438-6071.

# PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR

May irritate skin. Avoid contact with skin.

#### **PROTECTIVE CLOTHING**

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

Read and follow handling precautions and protective clothing recommendations on tank mix partner and surfactant tank-mix partner labels.

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

Wash hands 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 personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 equipmentand sprayer settings.

# FIRST AID

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

**IF INHALED**: Move person to fresh air. If person is not breathing, call 911 or anambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor forfurther treatment advice.

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

# TOXICOLOGICAL INFORMATION

No specific antidote is available. Treat the patient symptomatically. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

### **ENVIRONMENTAL PRECAUTIONS**

- TOXIC to aquatic organisms, aquatic plants and 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.
- 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 in cool, dry place and in such a manner as to prevent cross contamination with other pesticides or fertilizers. Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area.

#### SPILL CLEAN-UP:

Contact the manufacturer and the provincial regulatory agency in case of a spill and forclean-up of spills. Follow safety precautions as directed for handling the product.

If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

# DISPOSAL

**Recyclable Containers:** 

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

1. Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.

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

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

**Returnable Containers:** 

**DO NOT** reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### For refillable containers

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 regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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