

2024-0235  
2024-01-24

**[Container Label]**

**GROUP 2 4 HERBICIDES**

**OUTSHINE ALL IN™**

Emulsifiable Concentrate

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

**COMMERCIAL (AGRICULTURAL)**

For postemergent control or suppression of annual broadleaf weeds in spring wheat, durum wheat, winter wheat, spring barley, oats, brome grass and Crop Group 17.

**ACTIVE INGREDIENT:**

Florasulam	2.5 g/L
Fluroxypyr, present as 1-methylheptyl ester	100 g/L
MCPA, present as 2-ethylhexyl ester	350 g/L

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

**CAUTION – POISON  
SKIN IRRITANT**



REGISTRATION NO. 35082 PEST CONTROL PRODUCTS ACT

**For emergency medical help and health/safety inquiries call ProPharma Group at  
1.877.250.9291 (24 hours a day)**

**For spill, leak or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)**

NET CONTENTS: 1L – Bulk

**ADAMA Agricultural Solutions Canada Ltd.**  
300 – 191 Lombard Avenue  
Winnipeg, MB R3B 0X1  
1-855-264-6262

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## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.**

May irritate skin. Avoid contact with skin. 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.

Wash concentrate from skin or eyes **IMMEDIATELY**. After use, wash hands and other exposed skin. Avoid breathing spray mist.

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

**DO NOT** use in residential areas. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

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

**DO NOT** apply by air.

## **FIRST AID**

**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. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient. If burn is present, treat as any thermal burn after decontamination. If swallowed, aspiration may cause chemical pneumonia. When considering emptying the stomach, the danger of chemical pneumonia must be weighed against toxicity. If lavage is performed, a cuffed endotracheal tube should be considered.

## **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

**TOXIC** to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones

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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 contains aromatic petroleum distillates, which are toxic to aquatic organisms.

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

### **STORAGE**

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Store this product away from food or feed. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

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

**NOTICE TO USER:** 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.

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

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### **GENERAL INFORMATION**

OUTSHINE ALL IN™ is a selective postemergence herbicide for the control of hard-to-kill annual broadleaf weeds in spring wheat, durum wheat, winter wheat, spring barley and oats. OUTSHINE ALL IN™ is mixed with water and applied as a uniform broadcast spray.

OUTSHINE ALL IN™ MUST be applied early postemergence, to the main flush of actively growing broadleaf weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of OUTSHINE ALL IN™ by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled

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or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

OUTSHINE ALL IN™ stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

### **MODE OF ACTION**

OUTSHINE ALL IN™ contains a Group 2 and a 4 mode of action herbicide. The Group 2 mode of action herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids required for plant growth. The Group 4 mode of action herbicide disrupts normal plant growth regulation resulting in death of susceptible plants.

### **GENERAL USE PRECAUTIONS**

#### **Sensitive Plants**

Do not apply OUTSHINE ALL IN™ directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

#### **Non-Target Sites**

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Precautions section of the label.

#### **Crop Rotation**

Fields previously treated with OUTSHINE ALL IN™ can be seeded the following year to alfalfa, barley, canola, corn, fababeans, field beans, flax, lentils, mustard, oats, peas, potato, soybean, sunflower or wheat or fields can be summerfallowed.

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

#### **Tank Mixtures**

This product may be tank mixed with (a fertilizer, a supplement, or 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 ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before applying any tank mix that is not specifically recommended on this label.

#### **Spray Equipment Precaution**

Do not apply through any type of irrigation system.

### **To Reduce Spray Drift:**

1. Use nozzles delivering higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/hr or less.
5. Spot treatments should only be applied with a calibrated boom to prevent over-application.

### **Sprayer Clean-Out Instructions**

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.

1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
  - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
  - Agitate and circulate for 15 minutes, and flush through booms and hoses.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.
3. Second rinse:
  - Fill the tank with clean water.
  - Add All Clear Spray Tank Decontaminator plus 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water while filling the tank with clean water.
  - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.
  - After flushing the boom and hoses, drain tank completely.
  - Remove nozzles and screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).
4. Third rinse:
  - Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.

### **DIRECTIONS FOR USE**

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

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



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

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

**DO NOT** apply by air.

### SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

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

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) 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 1m	Greater than 1 m	Less than 1m	Greater than 1 m	
Field sprayer	Spring wheat, spring barley, oats, durum wheat, winter wheat, Crop Group 17 – forage grasses), brome grass	1	0	1	1	1

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

### OUTSHINE ALL IN™ APPLIED ALONE

#### Crops

Spring wheat, durum wheat, winter wheat, spring barley and oats.

#### Application Directions

For control of a wide spectrum of broadleaf weeds (see the following list of weeds controlled), apply OUTSHINE ALL IN™ at 1.0 L/ha in a minimum of 100 L per hectare of water. Apply to

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spring wheat, durum wheat, winter wheat and spring barley from the 2 leaf expanded to just prior to flag leaf emergence. Apply when weeds are actively growing (2-4 leaf stage). Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

### **Weeds Controlled or Suppressed by OUTSHINE ALL IN™ at 1.0 L/ha**

#### **Weeds Controlled:**

burdock	Russian pigweed
cleavers (1-8 whorl)*	shepherd's-purse
cocklebur	smartweed
common chickweed	stinkweed
flixweed	sunflower (annual)
hemp nettle	vetch
kochia*	volunteer canola
lamb's-quarters	volunteer flax
plantain	wild buckwheat
prickly lettuce	wild mustard
ragweed	wild radish
redroot pigweed	

\* Including ALS resistant biotypes

#### **Weeds suppressed:**

stork's-bill

#### **Mixing Instructions**

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of OUTSHINE ALL IN™.
4. Complete filling the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
5. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
6. Follow sprayer clean-up directions.

Note: Do not add a surfactant to this product.

#### **Pre-Harvest/Grazing Intervals**

1. Do not cut the treated crop for hay or graze treated crop within 7 days after application.
2. Do not harvest the treated crop within 60 days after application.

#### **TANK-MIX COMBINATIONS WITH OUTSHINE ALL IN™**

#### **Crops**

Spring wheat, winter wheat, durum wheat and spring barley (see table below for exclusions).

#### **Application Directions**

Tank mixtures of OUTSHINE ALL IN™ with other herbicides will provide control of additional broadleaf weeds and specified annual grasses. Apply when crops and weeds are actively

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growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow the most stringent of all precautions, restrictions, minimum interval to harvest and directions for use on the OUTSHINE ALL IN™ and tank-mix partner labels.

**NOTE: OUTSHINE ALL IN™ AT 0.8 L/HA IS TO BE USED ONLY WHEN TANK MIXED WITH SIMPLICITY GoDRI AND IS INTENDED FOR LOWER BROADLEAF WEED STAGES AND INFESTATIONS.**

**OUTSHINE ALL IN™ at 0.8 L/ha for Annual Grass Control and Additional Broadleaf Weeds**

Herbicide Tank Mix Partner	Crops Registered	Rate Product/ha	Additional Weeds Controlled
Simplicity GoDRI Herbicide	spring wheat, durum wheat, winter wheat	52 g/ha	Annual grass weeds: Japanese brome***, wild oats**  Broadleaf weeds: kochia**, lamb's-quarters, redroot pigweed, wild buckwheat, volunteer canola
		70 g/ha	Weeds above plus: Annual grass weeds: barnyard grass, Japanese brome, wild oats  Broadleaf weeds: cleavers, common chickweed, corn spurry, cow cockle, flixweed, hemp nettle, round-leaved mallow, shepherd's purse, smartweed, stinkweed

\* Including ALS resistant biotypes

\*\* Only for control of low wild oats populations (<75 plants/m<sup>2</sup>).

\*\*\* From the 1 to 4 leaf, 2 tiller stage under good growing conditions

"Less than 100 plants/m<sup>2</sup>, less than 15 cm in height

**OUTSHINE ALL IN™ at 1.0 L/ha plus other herbicides for Annual Grass Control and Additional Broadleaf Weeds**

Herbicide Tank Mix Partner	Crops Registered	Rate Product/ha	Additional Weeds Controlled or Suppressed
Simplicity GoDRI Herbicide	spring wheat, durum wheat,	52 g/ha	wild oats** Japanese brome***

Herbicide Tank Mix Partner	Crops Registered	Rate Product/ha	Additional Weeds Controlled or Suppressed
	winter wheat	70 g/ha	Annual grass weeds: barnyard grass, green foxtail, Japanese brome, wild oats, yellow foxtail  Broadleaf weeds: Canada thistle, dandelion, corn spurry, cow cockle, round-leaved mallow, Russian thistle, suppression of narrow-leaved hawk's-beard up to first flower, white cockle (season-long control: up to the first flower stage, less than 20 cm in height)
Axial Herbicide	spring wheat, spring barley	1.2 L	Annual grass weeds: barnyard grass, green foxtail, proso millet volunteer canary seed, volunteer oats, wild oats, yellow foxtail
Traxos Herbicide	spring wheat, durum wheat	1.2 L	Annual Grass Weeds: green foxtail, Persian darnel, proso millet, volunteer canary seed, volunteer oats, wild oats, yellow foxtail

" Wheat (including durum) exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control may also be reduced by these same conditions.

\*\* Only for control of low wild oats populations (<75 plants/m<sup>2</sup>).

\*\*\* From the 1 to 4 leaf, 2 tiller stage under good growing conditions.

### Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the WG herbicides first, then liquids, depending on the mixture followed by OUTSHINE ALL IN™ and continue to agitate.
4. Add the required amount of tank-mix partner.
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.

**Note: Add only the adjuvant recommended. Follow tank-mix partner label for order of mixing.**

### Improved Pastures containing only forage grasses

OUTSHINE ALL IN™ can be applied post emergence as a broadcast spray to control weeds in improved pastures that may eventually be rotated into annual cropland. Such pastures may contain non-native, tame or introduced forage grass species.

Do not spray improved pastures if the injury to existing legume species cannot be tolerated. OUTSHINE ALL IN™ will injure or eliminate legume plants (e.g. alfalfa, clover species).

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### **DIRECTIONS FOR USE**

Apply when weeds are in the 2-4 leaf stage and actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at, and following time of application may reduce weed control. Pastures in poor condition or under stress (e.g., over-grazed, nutrient deficient, etc.) could lead to reduced weed control as a result of limited competition from the pasture grasses. Foliage that is wet at the time of application may decrease control.

**Application rate:** OUTSHINE ALL IN™ at 1 L/ha

**Weeds controlled:** Refer to the weeds controlled above with OUTSHINE ALL IN™ at 1 L/ha alone.

### **Restrictions:**

1. Do not permit lactating dairy animals to graze fields within 7 days after application.
2. Do not harvest forage or cut hay within 7 days after application.
3. Withdraw meat animals from treated fields at least 3 days before slaughter.

Refer to the main OUTSHINE ALL IN™ label for additional details and instructions before using.

READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING THIS PRODUCT.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than ADAMA Agricultural Solutions Canada Ltd. under the User Requested Minor Use Label Expansion program. For these uses, ADAMA Agricultural Solutions Canada Ltd. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### **DIRECTIONS FOR USE**

**CONTROL OF LABELLED WEEDS IN CROP GROUP 17 FORAGE GRASSES GROWN FOR SEED PRODUCTION:** Seedling and established brome grasses (hybrid, meadow, smooth), fescues, meadow foxtail, orchardgrass, redtop, reed canarygrass, ryegrasses, timothy and wheatgrasses.

OUTSHINE ALL IN™ can be applied post emergence as a broadcast spray to control weeds in Crop Group 17 forage grasses grown for seed production that may eventually be rotated into annual cropland. Apply to seedling (4 leaf to flag leaf) or established forage grasses.

Apply when weeds are in the 2-4 leaf stage and actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at, and following time of application may reduce weed control. Foliage that is wet at the time of application may decrease control.

Application rate: OUTSHINE ALL IN™ at 1 L/ha.

Weeds controlled: Refer to the weeds controlled above with OUTSHINE ALL IN™ at 1 L/ha alone.

**Restrictions:**

All aftermath (the material left in the field after the harvest of Crop Group 17 forage grasses grown for seed production) may be used as forage, fodder, hay or pasture under the following conditions:

1. Do not permit lactating dairy animals to graze fields within 7 days after application.
2. Do not harvest forage or cut hay within 7 days after application.
3. Withdraw meat animals from treated fields at least 3 days before slaughter

**CONTROL OF LABELLED WEEDS IN BROMEGRASS (HYBRID, MEADOW, SMOOTH) GROWN FOR SEED/FORAGE/HAY:**

Following treatment with OUTSHINE ALL IN™, follow these grazing restrictions:

- DO NOT permit livestock to graze fields within 7 days after application for hay/forage use.
- DO NOT harvest forage or cut hay within 7 days after application for hay/forage use.
- DO NOT harvest the treated crop within 60 days after application for seed production use.

Application Rate: Apply 1 L/ha in a minimum of 100 L water/ha. Apply to actively growing weeds in the spring or fall after seeding.

Refer to the main OUTSHINE ALL IN™ label for additional details and instructions before using.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management OUTSHINE ALL IN™ is a Group 2 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to OUTSHINE ALL IN™ and other Group 2 and Group 4 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 OUTSHINE ALL IN™ or other Group 2 and Group 4 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields

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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 ADAMA Agricultural Solutions Canada Inc. 1-855-264-6262.

**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 any way that is inconsistent with the directions on the label.

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