

2020-1004  
2020-12-22

Container label

**GROUP 1 HERBICIDE**

**Ladder All In®**

AGRICULTURAL

Emulsifiable Concentrate

**FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER,  
OKANAGAN AND CRESTON FLATS REGIONS OF BRITISH COLUMBIA ONLY**

A post emergence herbicide for control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian darnel and volunteer canary seed in spring wheat and durum wheat.

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

**ACTIVE INGREDIENT:** Clodinafop-propargyl 80 g/L

Warning, contains the allergen soy

REGISTRATION NO. 32497 PEST CONTROL PRODUCTS ACT

**CAUTION**



**POISON**

**DANGER – CORROSIVE TO EYES**

NET CONTENTS: 4 – 1050 Litres

ADAMA Agricultural Solutions Canada Ltd.  
300 - 191 Lombard Avenue  
Winnipeg Manitoba R3B 0X1  
1-855-264-6262

**For emergency medical help call PROPHARMA 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)**

## **PRECAUTIONS**

- KEEP OUT OF THE REACH OF CHILDREN.
- Harmful if inhaled. Avoid breathing sprays, mists.
- Do not wear contact lenses when using.
- Corrosive to the eye. DO NOT get in eyes or on skin. Avoid contact with clothing. During mixing, loading, clean-up, repair and when applying by groundboom, workers must wear coveralls over long-sleeved shirt and long pants, shoes and socks, goggles, and chemical-resistant gloves. When applying by aerial application, pilots must wear long-sleeved shirt and long pants
- Wash gloves thoroughly with soap and water before removing them during any operation.
- Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label.
- Do not eat, drink or smoke while mixing, loading or during application.
- Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.
- 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.

If mixing and loading more than 15 kg a.i. in a day, workers must use a closed mixing/loading system.

### **Restricted-Entry Interval**

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

### **ENVIRONMENTAL PRECAUTIONS**

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

TOXIC to non-target terrestrial plants. Observe 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.

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.

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The residues of this product demonstrate the properties and characteristics associated with chemicals detected in ground water. The use of clodinafop-propargyl products in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

### **FIRST AID**

**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 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.

**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.

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

### **TOXICOLOGICAL INFORMATION**

This product contains a petroleum distillate. **DO NOT INDUCE VOMITING.** Vomiting may cause aspiration pneumonia. Treat symptomatically for ingestion and/or skin and eye contact.

### **STORAGE**

To prevent contamination, store this product away from food or feed.

### **DISPOSAL**

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.

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.

### **NOTICE TO USER**

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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.

Ladder All In is a registered trademark of an ADAMA Group Company.  
All other trademarks are the property of their respective owners.

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Booklet

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TOXIC to non-target terrestrial plants. Observe 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.

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## **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**

LADDER ALL IN® is a systemic, post-emergence herbicide with a built in adjuvant system for the selective control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian dandelion and volunteer canary seed in all types of spring wheat and Durum wheat. Do not use LADDER ALL IN® on barley, as crop injury will occur. Do not apply this product using aerial application equipment except under conditions specified on this label.

LADDER ALL IN® is absorbed by the leaves and is rapidly translocated to the growing points of leaves and stems. Thorough coverage of the plants is essential for consistent control. Actively growing susceptible grasses stop growing within 48 hours of treatment. Depending on species, growing conditions and crop competition, leaves and growing points turn yellow within one to three weeks after application. Further colour changes and loss of vigour will be observed, followed by a browning and complete control three to five weeks after application.

Although LADDER ALL IN® does not control broadleaf weeds, LADDER ALL IN® can be tank mixed with a wide range of broadleaf herbicides to provide broad spectrum weed control in wheat. It can also be tank mixed with Decis® Flowable Insecticide and Silencer® 120 EC Insecticide to control grassy weeds and insects and with Bumper® 432 EC to control grassy weeds and cereal leaf diseases. See section entitled “TANK MIXES OF LADDER ALL IN® WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES” and refer to the appropriate Tank Mix section for ground and aerial application.

## **DIRECTIONS FOR USE**

DO NOT apply more than once per year.

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.

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.

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



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A 30-day plant-back interval must be observed for all unlabelled crops

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

**CROPS:** Spring Wheat and Durum Wheat

LADDER ALL IN® can be used on all varieties of spring wheat and Durum wheat. Do not apply on barley or any crop other than spring wheat or Durum wheat, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or Durum wheat.

Do not treat wheat underseeded to forages. Observe a minimum pre-harvest interval of 60 days after treatment for grain and straw and of 30 days after treatment for hay. Observe a minimum of seven (7) days before grazing livestock on treated crops.

For use directions specific to application by air, please refer to sections on aerial application. For aerial application precautions, please refer to the precautions section.

**WEEDS CONTROLLED:** Wild Oats, Volunteer (Tame) Oats, Green Foxtail, Yellow Foxtail, Barnyard grass, Persian Darnel and Volunteer Canary Seed

**TIMING OF APPLICATION:**

<b>WEED CONTROLLED</b>	<b>GROWTH STAGE</b>	<b>ADDITIONAL REMARKS</b>
WILD OATS	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
VOLUNTEER (TAME) OATS	3 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
GREEN FOXTAIL AND YELLOW FOXTAIL (wild millet, pigeon grass)	1 to 5 leaf stage on main stem	For optimum control apply prior to emergence of the 3rd tiller and while foxtail is actively growing
BARNYARD GRASS	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while barnyard grass is actively growing
PERSIAN DARNEL	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while Persian darnel is actively growing
VOLUNTEER CANARY SEED	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
SPRING WHEAT AND DURUM WHEAT	Prior to emergence of 4 <sup>th</sup> tiller	When tank mixing with a broadleaf herbicide, insecticide or a fungicide, always refer to the label of the broadleaf partner, insecticide partner or fungicide partner prior to use.

For optimum results, apply LADDER ALL IN® to actively growing weeds. An early

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application will maximize crop yields by reducing weed competition. Weeds emerging after application of LADDER ALL IN® will not be controlled.

Weed control following application of LADDER ALL IN® alone, or in combination with broadleaf weed herbicides, can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding or prolonged cool temperatures. Grass escapes or re-tillering may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of LADDER ALL IN® is delayed until the stress conditions have ended and weeds are once again actively growing.

LADDER ALL IN® alone can be used 30 minutes before rainfall.

Do not apply to a crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

**RATE OF USE FOR GROUND APPLICATION:**

Apply the recommended rate of LADDER ALL IN® in a minimum of 50 to 100 L of water per hectare.

<b>To Control:</b> WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED	<b>To Control:</b> WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED PERSIAN DARNEL
<b>Apply:</b> 700 mL/ha of LADDER ALL IN®	<b>Apply:</b> 880 m L/ha of LADDER ALL IN®

**NOTE: LADDER ALL IN® contains a built in adjuvant system. DO NOT add ADAMA Adjuvant 80, MANA 8317 OIL CONCENTRATE, Assist, XA Oil Concentrate, or any other adjuvant to the LADDER ALL IN® mixture.**

**RATE OF USE FOR AERIAL APPLICATION:**

Apply the recommended rate of LADDER ALL IN® in a minimum of 30 L of water per hectare according to the following table:

<b>To Control:</b> WILD OATS	<b>To Control:</b> WILD OATS GREEN FOXTAIL YELLOW FOXTAIL PERSIAN DARNEL
<b>Apply:</b> 700 mL/ha of LADDER ALL IN®	<b>Apply:</b> 880 mL/ha of LADDER ALL IN®

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**TANK MIXES OF LADDER ALL IN® WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES – GROUND APPLICATION:**

**CROP:** SPRING and DURUM WHEAT

**TANK MIXES WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES IN SPRING WHEAT AND DURUM WHEAT:**

**For broad spectrum control of wild oats, green foxtail, barnyard grass, Persian darnel and broadleaf weeds,** LADDER ALL IN® can be tank mixed with broadleaf herbicides as described in the following tables. LADDER ALL IN® can also be tank mixed with Decis® Flowable Insecticide and Silencer® 120 EC Insecticide for control of insects listed on the Decis® Flowable Insecticide and Silencer® 120 EC Insecticide label and with Bumper® 432 EC for control of diseases listed on the Bumper® 432 EC label, in addition to grassy weeds. Consult the label of the tank mix partner for a list of broadleaf weeds, insects or diseases controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific weeds/insects/diseases, directions for use and precautions and follow the more restrictive label. When tank mixing always add the broadleaf herbicide(s), insecticide or fungicide to the spray tank first; followed by LADDER ALL IN® added last. For the appropriate rate of LADDER ALL IN®, refer to the 'Rate of Use' section of the label.

**Tank mixes for broad spectrum control of wild oats, green foxtail, broadleaf weeds, insects and diseases:**

<b>Tank mix Partner<sup>1,2</sup></b>	<b>Product Rates</b>	<b>Crop Stage</b>
Target® Liquid Systemic Herbicide	1.0 - 1.5 L/ha	2 to 5 leaf
Dyvel® Herbicide Agricultural	1.25 L/ha	2 to 5 leaf
Badge®	1.25 L/ha	2 leaf to flag leaf
Estoprop® Plus Liquid Herbicide	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Turboprop®	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Dichlorprop D	1.75 L/ha	4 leaf to early flag leaf (shot blade)
Lontrel® 360	420-840 mL/ha	3 leaf to flag leaf
Lontrel® 360 tank mixed with MCPA Ester (assume 500 series)	280-420 mL/ha tank mixed with 1.1 L/ha	3 leaf to flag leaf
Curtail® M	1.5-2.0 L/ha	3 leaf to just before flag leaf
Prestige® Herbicide Tank Mix <sup>6</sup>	600-800 mL/ha of Prestige® A + 1.5-2.0 L/ha Prestige® B	3 leaf to flag leaf
Approve® Herbicide	1.24 L/ha	4 leaf to flag leaf
Thrasher®	1.25 L/ha	4 leaf to flag leaf
2,4-D Amine (assume 600 series) <sup>3</sup>	700-920 mL/ha	3 leaf to flag leaf
2,4-D Amine (assume 500 series) <sup>3</sup>	840 mL-1.1 L/ha	3 leaf to flag leaf

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MCPA Amine (assume 500 series) <sup>3</sup>	840 mL-1.1 L/ha	3 leaf to flag leaf
MCPA Amine (assume 600 series) <sup>3</sup>	700-920 mL/ha	3 leaf to flag leaf
MCPA Ester (assume 500 series)	840 mL-1.1 L/ha	3 leaf to flag leaf
MCPA Ester (assume 600 series)	700-920 mL/ha	3 leaf to flag leaf
MCPA Sodium Salt 300	1.2-2.7 L/ha	3 leaf to flag leaf
Koril® 235 Liquid Herbicide	1.2 L/ha	2 leaf to flag leaf
Bromotril® 240 EC	1.2 L/ha	2 leaf to flag leaf
Ally®	7.5 g/ha	2 leaf to flag leaf
Attain® Herbicide Tank Mix <sup>6</sup>	450 - 600 mL/ha of Attain® A + 0.75 - 1.0 L/ha of Attain® B	4 leaf to flag leaf
Decis® Flowable Insecticide	80-120 mL/ha	Prior to emergence of 4th tiller
Bumper® 432 EC	150-300 mL/ha	Prior to emergence of 4th tiller
Mecoprop-P <sup>4</sup>	5.5-7.0 L/ha	3 leaf to just before flag leaf
Silencer® 120EC Insecticide	63-83 mL/ha	Prior to emergence of 4th tiller
Mextrol® 450 Liquid Herbicide	1.25 L/ha	2 leaf to flag leaf
Trophy® Herbicide Tank mix	0.6 L/ha of Trophy® A + 1.12 L/ha Trophy® B	3 leaf to flag leaf
Florasulam 50 SC Herbicide	100 mL/ha	2 to 4 leaf
Benchmark® Herbicide Tank Mix	100 mL/ha Benchmark® A + 1.12 L/ha Benchmark® B	2 to 6 leaf
Refine Extra® 75 DF tank mixed with Accord® DF Herbicide <sup>5</sup>	20 g/ha of Refine Extra® + 67 g/ha of Accord® DF	2 to 5 leaf
Refine® SG Herbicide	30 g/ha	2 leaf to flag leaf
Refine® SG Toss-N-Go Herbicide	30 g/ha	2 leaf to flag leaf
Dycleer® Agricultural Herbicide + Starane® Herbicide	(0.11 L/ha of Dycleer® Agricultural + 0.39 L/ha of Starane) to (0.16 L/ha of Dycleer® Agricultural + 0.58 L/ha of Starane®)	2 to 5 leaf
Pulsar® Herbicide + MCPA Ester (500 Series)	0.607 – 0.917 L/ha Pulsar® Herbicide + 0.7 L/ha MCPA Ester (500 series)	2 to 5 leaf
Pulsar® Herbicide	0.607 – 0.917 L/ha	2 to 5 leaf

<sup>1</sup> Always consult the label of the broadleaf herbicide, insecticide or fungicide prior to use.

<sup>2</sup> NOTE: LADDER ALL IN® contains a built in adjuvant system. Do Not add ADAMA Adjuvant 80, MANA 8317 OIL CONCENTRATE, Assist, XA Oil Concentrate, or any other adjuvant to the LADDER ALL IN® mixture.

<sup>3</sup> A reduction in control of green foxtail and wild oats may be observed when LADDER ALL IN® is tank mixed with 2,4-D Amine and MCPA Amine.

<sup>4</sup> Tank mix with Mecoprop provides suppression of Canada Thistle (top growth control)

<sup>5</sup> When tank mixing with Accord® DF Herbicide, do not graze treated crops or cut for hay within 77 days of application.

<sup>6</sup> Refer to broadleaf tank mix label for list of weeds controlled at low and high use rates.

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**For the control of barnyard grass and broadleaf weeds, in addition to wild oats and green foxtail, use one of the following tank mixes:**

Tank Mix Partner	Product Rates	Crop Stage <sup>1</sup>
Target® Liquid Systemic Herbicide	1.0 to 1.5 L/ha	2 to 5 leaf
Badge®	1.25 L/ha	2 leaf to flag leaf
Estaprop® Plus Liquid Herbicide	1.75 L/ha	4 leaf to early flag leaf (shot blade)
1 Always consult the label of the broadleaf herbicide prior to use		

**For control of Persian Darnel\* and broadleaf weeds, in addition to wild oats, green foxtail and barnyard grass, use the following tank mix:**

Tank Mix Partner	Product Rates	Crop Stage <sup>1</sup>
Badge®	1.25 L/ha	2 leaf to flag leaf
1 Always consult the label of the broadleaf herbicide prior to use		

\* Use the higher rate of LADDER ALL IN® Tank Mix to control Persian Darnel. Refer to the “Rate of Use” section of the label.

Temporary crop injury may occur with tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture level or extreme temperatures.

Do not tank mix with any chemical additives, pesticides, or fertilizers that are not recommended on this label.

#### **TANK MIXES OF LADDER ALL IN® WITH BROADLEAF WEED HERBICIDES - AERIAL APPLICATION:**

**CROP:** SPRING WHEAT and DURUM WHEAT

For broad spectrum control of wild oats, green foxtail and broadleaf weeds, LADDER ALL IN® can be tank mixed with Badge®. Consult the label of the tank mix partner for a list of broadleaf weeds controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific weeds, directions for use and precautions and follow the more restrictive label. Use in a minimum of 30 L of water per hectare.

Tank mixes of LADDER ALL IN® with broadleaf weed herbicides - Aerial application: When tank mixing always add the broadleaf herbicide to the spray tank first; followed by LADDER ALL IN®. For the appropriate rate of LADDER ALL IN® refer to the ‘Rate of Use For Aerial Application’ section of the label.		
Tank Mix Partner	Product Rates	Crop Stage <sup>1</sup>
Badge®	1.25 L/ha	2 leaf to flag leaf
Target® Liquid Systemic Herbicide	1.0 to 1.5 L/ha	2 to 5 leaf

<sup>1</sup> Always consult the label of the broadleaf partner prior to use.

Temporary crop injury may occur with tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture level or extreme

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temperatures.

Do not tank mix with any chemical additives, pesticides, or fertilizers that are not recommended on this label.

### Buffer zones:

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

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Terrestrial Habitat:	
		Less than 1 m	Greater than 1 m		
Field sprayer	Spring and durum wheat	1	0	1	
Aerial	Fixed wing	Spring and durum wheat (55.2–70.2 g a.i./ha)	1	0	20
	Rotary wing		1	0	20

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

For tank mixes, 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 (ASABE) category indicated on the labels for those tank mix partners.

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

### MIXING INSTRUCTIONS - GROUND APPLICATION:

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
2. If a broadleaf herbicide, insecticide or fungicide is to be used, add the product **FIRST** prior to adding LADDER ALL IN® and agitate for 2-3 minutes.
3. Add correct amount of LADDER ALL IN®.
4. Agitate for 3 – 5 minutes before adding remainder of water and then maintain constant agitation.
5. After any break in spraying operations, agitate thoroughly before spraying again.
6. **Use the spray suspension as soon as it is prepared.**
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

### SPRAYING INSTRUCTIONS - GROUND APPLICATION:

1. Ladder All In can be applied by ground or air. For aerial application instructions, refer to the section entitled “SPRAYING INSTRUCTIONS - AERIAL APPLICATION” which follows this section.
2. Water Volume: 50 to 100 litres per hectare when applied alone and a minimum of 100 L/ha when tank mixed with broadleaf herbicides.
3. Spray Nozzles: 80° or 110° flat fan stainless steel nozzles are recommended for optimal

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spray coverage. Application of the spray mixture at a 45° angle in the direction of travel will result in improved spray coverage. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.

4. Pressure: 275-310 kPa.
5. Apply uniformly at 6-8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an over application.

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 and Biological Engineers (ASABE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

## **AERIAL APPLICATION**

### **Generic Aerial Application Label Instructions - Directions for Use**

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.

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 apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

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

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or a face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking.

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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 1-855-264-6262 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:

### **MIXING INSTRUCTIONS - AERIAL APPLICATION:**

1. Fill the mixing tank 1/2 full with clean water. Start gentle agitation.
2. If a broadleaf herbicide is to be used, add the product **FIRST** prior to adding LADDER ALL IN® and agitate for 2-3 minutes.
3. Add correct amount of LADDER ALL IN®.
4. Agitate for 3 – 5 minutes before adding remainder of water and then maintain constant agitation.
5. Fill aircraft spray tank and maintain gentle agitation while spraying.
6. After any break in spraying operations, agitate thoroughly before spraying again. Do not let contents stand without agitation.
7. **Use the spray suspension as soon as it is prepared.**
8. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

### **SPRAYING INSTRUCTIONS - AERIAL APPLICATION:**

1. LADDER ALL IN® can be applied by ground or by air. For ground application instructions, refer to the section entitled “SPRAYING INSTRUCTIONS - GROUND APPLICATION” which precedes this section.
2. Water Volume - Aerial application: Minimum of 30 litres per hectare when applied alone or when tank mixed with Badge®.
3. When a tank mixture is used, consult the label of the tank mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.
4. Ensure uniform application. To avoid uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

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 and Biological Engineers (ASABE S572.1) coarse classification, with a volume medium diameter (VMD) greater than 350 microns. Reduce drift caused by turbulent wingtip vortices. The nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor-span.

### **SPRAYER CLEAN-UP:**

Thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with clean water. Do not clean the sprayer near desirable vegetation, wells, or other water sources.
2. Remove the nozzles and screens and wash separately.
3. Dispose of all rinsings in accordance with provincial regulations.



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4. If a broadleaf tank mix partner is used, always check tank mix partner label for any additional clean up procedures.

### **Resistance-Management Recommendations**

For resistance management, LADDER ALL IN® is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to LADDER ALL IN® and other Group 1 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 LADDER ALL IN® or other Group 1 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact company representatives at ADAMA Agricultural Solutions Canada Ltd. 1-855-264-6262 or [www.adama.com/canada](http://www.adama.com/canada)

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