

2022-08-17
2021-5443
Container Label

GROUP 1 HERBICIDE

LADDER®

EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

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

ACTIVE INGREDIENT: Clodinafop-propargyl 240 g/L

Warning, contains the allergen (soy)

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



POISON

WARNING-EYE and SKIN IRRITANT

REGISTRATION NO.: 29495 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1-1050 litres

ADAMA Agricultural Solutions Canada Ltd.
300-191 Lombard Avenue
Winnipeg, MB 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

- CAUTION – POISON
- WARNING – EYE AND SKIN IRRITANT
- KEEP OUT OF THE REACH OF CHILDREN.
- Harmful if swallowed.
- May irritate eyes. Do not wear contact lenses when using.
- 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.

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:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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

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.

FIRST AID

Take the 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 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.

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

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

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 is a registered trademark of an ADAMA Group Company

All other trademarks are the property of their respective owners.

Booklet

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- Wash gloves thoroughly with soap and water before removing them during any operation.
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Avoid application when heavy rain is forecast.

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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.

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

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DISPOSAL

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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® is a systemic, post-emergence herbicide 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® on barley, as crop injury will occur. Do not apply this product using aerial application equipment except under conditions specified on this label.

LADDER® 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® does not control broadleaf weeds, LADDER® 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 Matador® 120 EC Insecticide to control grassy weeds and insects and with TILT® 250 E Fungicide to control grassy weeds and cereal leaf diseases.

See section entitled “TANK MIXES of LADDER® WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES” and refer to the appropriate Tank Mix section for ground and aerial application.

DIRECTIONS FOR USE

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

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

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

CROPS: Spring Wheat and Durum Wheat

LADDER® 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:

TIMING	GROWTH STAGE	ADDITIONAL REMARKS
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 4th 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® to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of LADDER® will not be controlled.
- Weed control following application of LADDER® 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® is delayed until the stress conditions have ended and weeds are once again actively growing.
- LADDER® alone can be used 30 minutes before rainfall.
- Do not apply to 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 rates of LADDER® and an adjuvant such as COC*, NIS*, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC in a minimum of 50 to 100 L of water per hectare according to the following table:

<p>To control: WILD OATS, VOLUNTEER (TAME) OATS, GREEN FOXTAIL, YELLOW FOXTAIL, BARNYARD GRASS, VOLUNTEER CANARY SEED</p>	<p>To control: WILD OATS, VOLUNTEER (TAME) OATS, GREEN FOXTAIL, YELLOW FOXTAIL BARNYARD GRASS, VOLUNTEER CANARY SEED, PERSIAN DARNEL</p>
<p>Rates for use with 50 L/ha water</p>	
<p>Apply: 230 mL/ha of LADDER® + a) 400 mL/ha (0.8% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, Assist Oil Concentrate, XA Oil Concentrate) OR b) 160 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 250 mL/ha (0.5% v/v) of Destinaire® or Journey™</p>	<p>Apply: 290 mL/ha of LADDER® + a) 500 mL/ha (1% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, , Assist® Oil Concentrate, XA Oil Concentrate) OR b) 160 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 250 mL/ha (0.5% v/v) of Destinaire® or Journey™</p>
<p style="text-align: center;">NOTE:</p> <p>One 3.68 L jug of LADDER® treats 16 ha (40 acres) with 800 L of water</p>	<p style="text-align: center;">NOTE:</p> <p>One 3.68 L jug of LADDER® treats 12.8 ha (31.4 acres) with 640 L of water</p>
<p>Rates for use with 100 L/ha water</p>	
<p>Apply: 230 mL/ha of LADDER® + a) 800 mL/ha (0.8% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, Assist® Oil Concentrate, XA Oil Concentrate) OR b) 320 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 500 mL/ha (0.5% v/v) of Destinaire® or Journey™</p>	<p>Apply: 290 mL/ha of LADDER® + a) 1 L/ha (1% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, Assist® Oil Concentrate, XA Oil Concentrate) OR b) 320 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 500 mL/ha (0.5% v/v) of Destinaire® or Journey™</p>
<p style="text-align: center;">NOTE:</p> <p>One 3.68 L jug of LADDER® treats 16 ha (40 acres) with 1600 L of water</p>	<p style="text-align: center;">NOTE:</p> <p>One 3.68 L jug of LADDER® treats 12.8 ha (31.4 acres) with 1280 L of water</p>

*COC = Crop Oil Concentrate, NIS = Non-ionic Surfactant (refer to surfactant label for rates)

NOTE: Always use an adjuvant such as a COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC with LADDER®.

RATE OF USE FOR AERIAL APPLICATION:

Apply the recommended rate of LADDER® and an adjuvant such as COC*, NIS*, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC in a minimum of 30 L of water per hectare according to the following table:

To Control: WILD OATS	To Control: WILD OATS, GREEN FOXTAIL, YELLOW FOXTAIL, PERSIAN DARNEL
Apply: 230 mL/ha of LADDER® + a) 240 mL/ha (0.8% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, Assist® Oil Concentrate, XA Oil Concentrate) OR b) 96 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 150 mL/ha (0.5% v/v) of Destinaire® or Journey™	Apply: 290 mL/ha of LADDER® + a) 300 mL/ha (1.0% v/v) of a COC* adjuvant (e.g. ADAMA 8317 Oil Concentrate, Assist® Oil Concentrate, XA Oil Concentrate) OR b) 96 mL/ha (0.32% v/v) of Adjuvant 80 or another NIS* OR c) 150 mL/ha (0.5% v/v) of Destinaire® or Journey™
NOTE: One 3.68 L jug of LADDER® treats 16 ha (40 acres) with 480 L of water	NOTE: One 3.68 L jug of LADDER® treats 12.8 ha (31.4 acres) with 384 L of water

*COC = Crop Oil Concentrate, NIS = Non-ionic Surfactant (refer to surfactant label for rates)

NOTE: Always use an adjuvant such as COC, NIS, , Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC with LADDER®.

TANK MIXES of LADDER® WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES – GROUND APPLICATION:

CROP: SPRING and DURUM WHEAT

For broad spectrum control of wild oats, green foxtail, barnyard grass, Persian Darnel and broadleaf weeds, LADDER® can be tank-mixed with broadleaf herbicides as described in the following tables.

LADDER® can also be tankmixed with Decis® Flowable Insecticide or Matador® 120 EC Insecticide for control of insects listed on the Decis® Flowable Insecticide or Matador® 120 EC Insecticide label or with TILT® 250 E Fungicide for control of diseases listed on the TILT® 250 E Fungicide label, in addition to grassy weeds.

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.

Use in a minimum of 100 L of water per hectare.

When tank-mixing always add the broadleaf herbicide(s), insecticide or fungicide to the spray tank first; followed by LADDER® with an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC) added last.

For the appropriate rate of LADDER® with an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC) refer to the “Rate of Use For Ground Application” section of the label.

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

Tank-Mix Partner	Product Rates	Crop Stage¹
Target® Liquid Systemic Herbicide	1.0 to 1.5 L/ha	2 to 5 leaf
Dyvel® Herbicide	1.25 L/ha	2 to 5 leaf
Refine Extra® ²	20 g/ha	2 leaf to flag leaf
Badge®	1.25L/ha	2 leaf to flag leaf
Pardner® Herbicide	1.0 L/ha	2 leaf to flag leaf
Lontrel® 360	0.42 to 0.84 L/ha	3 leaf to flag leaf
Lontrel® 360 tank mixed with MCPA Ester 600	280 to 420 mL/ha Tank-mixed with 0.92 L/ha	3 leaf to flag leaf
Lontrel® 360 tank-mixed with Refine Extra® 75 DF	0.21 L/ha tank-mixed with 20 g/ha	3 leaf to flag leaf
Curtail® M	1.5 to 2.0 L/ha	3 leaf to just before flag leaf
Thrasher®	1.25 L/ha	2 leaf to early flag leaf
2,4-D Amine (assume 600 series) ⁴	700 mL to 0.92 L/ha	3 leaf to flag leaf
MCPA Amine (assume 600 series) ⁴	700 mL to 0.92 L/ha	3 leaf to flag leaf
MCPA Ester (assume 600 series)	700 mL to 0.92 L/ha	3 leaf to flag leaf
MCPA 300 sodium salt	1.2 L to 2.7 L/ha	3 leaf to flag leaf
Bromotril® 240	1.2 L/ha	2 leaf to flag leaf
Ally® ²	7.5 g/ha	2 leaf to flag leaf
Attain® Herbicide Tank Mix ³	450 to 600 mL/ha of Attain® A + 0.75 to 1.0 L/ha of Attain® B	4 leaf to flag leaf
Decis® Flowable Insecticide	80-120 mL/ha	Prior to emergence of 4 th tiller
Mecoprop-P ⁵	5.5 to 7.0 L/ha	3 leaf to just before flag leaf

Silencer® 120 EC or Matador® 120 EC Insecticide	63 to 83 mL/ha	Prior to emergence of 4 th tiller
Bumper® 432 EC	See label	Prior to emergence of 4 th tiller
Trophy® Herbicide Tank Mix ⁶	0.6 L/ha of Trophy® A + 1.12 L/ha Trophy® B	3 leaf to flag leaf
Badge®, Mextrol® 450 Liquid Herbicide	1.25 L/ha	2 leaf to flag leaf
¹ Always consult the label of the broadleaf herbicide, insecticide or fungicide prior to use.		
² Additional adjuvants other than those already recommended for LADDER® in the – “Rate of Use for Ground Application” section are not required		
³ Refer to the broadleaf tank-mix partner label for list of weeds controlled at low and high rates		
⁴ A reduction in control of green foxtail and wild oats may be observed when LADDER® is tank-mixed with 2,4-D Amine and MCPA Amine.		
⁵ Tank mix with Mecoprop-p provides suppression of Canada Thistle (top growth control)		
⁶ Rates above 2.0 L/ha may cause crop injury		

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 ¹
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
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 ¹
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® 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® 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® can be tank-mixed with Badge®.

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.

Use in a minimum of 30 L of water per hectare.

When tank-mixing always add the broadleaf herbicide (Badge®) to the spray tank first; followed by LADDER®, with an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC) added last.

For the appropriate rate of LADDER® with an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC) refer to the 'Rate of Use For Aerial Application' section of the label.

Tank-Mix Partner	Product Rates	Crop Stage¹
Badge®	1.25 L/ha	2 leaf to flag leaf

¹Always 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 temperatures.

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

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 lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

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

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank-mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank-mix partners.

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

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® and agitate for 2-3 minutes.
3. Add correct amount of LADDER®.
4. Agitate for 2-3 minutes.
5. Add correct amount of an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC).
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. After any break in spraying operations, agitate thoroughly before spraying again.
- 8. Use the spray suspension as soon as it is prepared.**
9. 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® 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 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 Engineers (ASAE 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 Pesticide.

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 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. 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® and agitate for 2-3 minutes.
3. Add correct amount of LADDER®.
4. Agitate for 2-3 minutes.
5. Add correct amount of an adjuvant (COC, NIS, Destinaire® High Surfactant Oil Concentrate or Journey™ HSOC).
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. Fill aircraft spray tank and maintain gentle agitation while spraying.
8. After any break in spraying operations, agitate thoroughly before spraying again. Do not let contents stand without agitation.
- 9. Use the spray suspension as soon as it is prepared.**
10. 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® 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. 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 Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor-span.

SPRAYER CLEAN-UP:

1. Thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following recommendations are provided:
2. 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.
3. Remove the nozzles and screens and wash separately.
4. Dispose of all rinsings in accordance with provincial regulations.

5. 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® is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to LADDER® 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® 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 resistance 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 Ltd. at 1-855-264-6262 or at www.adama.com/canada.

NOTE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

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. (ADAMA) under the User Requested Minor Use Label Expansion program. For these uses, ADAMA 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 IN THE OKANAGAN AND CRESTON FLATS REGION OF BC:

LADDER® can be used for the control of wild oats, green foxtail and yellow foxtail in spring wheat and durum wheat in the Okanagan and Creston Flats Regions of British Columbia. For information on crop and weed stages, rates of application, mixing and spraying instructions and precautions see the appropriate sections elsewhere on this label.

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