

PMRA APPROVED LABEL, JB  
Sub. No. 2016-7477, 2016-12-14  
Container label

GROUP	<b>1</b>	HERBICIDE
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## **Cadillac™ One**

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**

**GUARANTEE:** Clodinafop-propargyl 80 g/L  
Warning, contains the allergen soy

REGISTRATION NO.: 32539 PEST CONTROL PRODUCTS ACT

**CAUTION**



**POISON**

**DANGER – CORROSIVE TO EYES**

NET CONTENTS: 4 – 1050 Litres

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY RESPONSE NUMBER COLLECT ADAMA Agricultural Solutions Canada Ltd. at 1 800 535-5053 (24 HOURS A DAY).

ADAMA Agricultural Solutions Canada Ltd.  
302 - 179 McDermot Ave  
Winnipeg MB R3B 0S1

Distributed Exclusively By:  
United Suppliers Canada  
101-302 Wellman Lane  
Saskatoon SK  
S7T 0J1  
CANADA  
1-888-975-4769

## **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. Wear coveralls or long sleeved shirt and long legged pants, chemical resistant gloves, and goggles or a face shield when mixing, loading or during equipment clean-up or repair. During application, wear coveralls or long sleeved shirt and long legged 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.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Apply only when the potential for drift to areas of human habitation or 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 this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca)

## **ENVIRONMENTAL HAZARDS**

This product contains aromatic petroleum distillates which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff

include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as 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.

## **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**

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. To prevent contamination store this product away from food, feed, and fertilizer.

## **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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1 800 535-5053***

**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. The user assumes the risk to persons or property that arises from any such use of this product.

Booklet

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- 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.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Apply only when the potential for drift to areas of human habitation or 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.

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## ENVIRONMENTAL HAZARDS

This product contains aromatic petroleum distillates which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as 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.

## **FIRST AID**

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## **TOXICOLOGICAL INFORMATION**

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## **STORAGE**

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. To prevent contamination store this product away from food, feed, and fertilizer.

## **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:

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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1 800 535-5053***

### **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. The user assumes the risk to persons or property that arises from any such use of this product.

### **PRODUCT INFORMATION**

CADILLAC ONE 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 CADILLAC ONE on barley, as crop injury will occur. Do not apply this product using aerial application equipment except under conditions specified on this label.

CADILLAC ONE 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 CADILLAC ONE does not control broadleaf weeds, CADILLAC ONE 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<sup>®</sup> 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 CADILLAC ONE 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. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.



Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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

**CROPS:** Spring Wheat and Durum Wheat

CADILLAC ONE can be used on all varieties of spring wheat and Durum wheat. Observe minimum interval to harvest of 60 days after treatment. 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 of three (3) days before grazing livestock on crops treated with CADILLAC ONE. 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:**

WEED CONTROLLED	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 CADILLAC ONE to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of CADILLAC ONE will not be controlled.

Weed control following application of CADILLAC ONE 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 CADILLAC ONE is delayed until the stress conditions have ended and weeds are once again actively growing.

CADILLAC ONE 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 CADILLAC ONE in a minimum of 50 to 100 L of water per hectare.

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

**NOTE: CADILLAC ONE contains a built in adjuvant system. Do Not add Adjuvant 80, MANA 8317 OIL CONCENTRATE, Assist, XA Oil Concentrate, or any other adjuvant to the CADILLAC ONE mixture.**

**RATE OF USE FOR AERIAL APPLICATION:**

Apply the recommended rate of CADILLAC ONE 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 CADILLAC ONE	<b>Apply:</b> 880 mL/ha of CADILLAC ONE

**NOTE: CADILLAC ONE contains a built in adjuvant system. Do Not add Adjuvant 80, MANA 8317 OIL CONCENTRATE, Assist, XA Oil Concentrate, or any other adjuvant to the CADILLAC ONE mixture.**

**TANK MIXES OF CADILLAC ONE 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,** CADILLAC ONE can be tank mixed with broadleaf herbicides as described in the following tables. CADILLAC ONE 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 CADILLAC ONE added last. For the appropriate rate of CADILLAC ONE, 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:**

Tank mix Partner <sup>1,2</sup>	Product Rates	Crop Stage
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
Estaprop 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 EC	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
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: CADILLAC ONE contains a built in adjuvant system. Do Not add Adjuvant 80, MANA 8317 OIL CONCENTRATE, Assist, XA Oil Concentrate, or any other adjuvant to the CADILLAC ONE mixture.		
<sup>3</sup> A reduction in control of green foxtail and wild oats may be observed when CADILLAC ONE 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.		

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

<b>Tank Mix Partner</b>	<b>Product Rates</b>	<b>Crop Stage<sup>1</sup></b>
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)
<sup>1</sup> 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:**

<b>Tank Mix Partner</b>	<b>Product Rates</b>	<b>Crop Stage<sup>1</sup></b>
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 CADILLAC ONE 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 CADILLAC ONE WITH BROADLEAF WEED HERBICIDES - AERIAL APPLICATION:**

**CROP:** SPRING WHEAT and DURUM WHEAT

For broad spectrum control of wild oats, green foxtail and broadleaf weeds, CADILLAC ONE 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 CADILLAC ONE with broadleaf weed herbicides - Aerial application: When tank mixing always add the broadleaf herbicide to the spray tank first; followed by CADILLAC ONE. For the appropriate rate of CADILLAC ONE refer to the ‘Rate of Use For Aerial Application’ section of the label.		
<b>Tank Mix Partner</b>	<b>Product Rates</b>	<b>Crop Stage<sup>1</sup></b>
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 temperatures.

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

**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 CADILLAC ONE and agitate for 2-3 minutes.
- 3 Add correct amount of CADILLAC ONE.

Agitate for 3 – 5 minutes before adding remainder of water and then maintain constant agitation.



- 4 After any break in spraying operations, agitate thoroughly before spraying again.
- 5 **Use the spray suspension as soon as it is prepared.**
- 6 If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

#### **SPRAYING INSTRUCTIONS - GROUND APPLICATION:**

- 1 Cadillac One 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.
- 6 Do not contaminate streams, rivers, lakes, ponds, wetlands, sloughs, irrigation water, vegetated ditch banks, and water used by livestock or for domestic purposes. Do not apply within 15 metres of a wetland area or any of the aforementioned bodies of water.

#### **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. 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 1 919-256-9300 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 CADILLAC ONE and agitate for 2-3 minutes.
- 3 Add correct amount of CADILLAC ONE.
- 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 CADILLAC ONE 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 applying by aircraft, applicators are required to use spray nozzles or nozzle configurations and spraying pressures which will provide a COARSE droplet size distribution, with a volume medium diameter (VMD) greater than 350 microns.
- 4 Aerial drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hr.
- 5 For the protection of non-target habitats, overspray or drift to sensitive habitats must be avoided. A buffer zone of 76 metres is required between the downwind edge of the boom and sensitive terrestrial habitats including grasslands, forested areas, shelter belts, woodlots, hedgerows and shrublands. A buffer zone of 72 metres is required between the downwind edge of the boom and sensitive aquatic habitats such as sloughs, ponds, prairie

potholes, lakes, rivers, streams and irrigation ditches, and the vegetation surrounding wetlands. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

- 6 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.
- 7 Ensure uniform application. To avoid uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

### **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.
- 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, CADILLAC ONE is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to CADILLAC ONE 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 CADILLAC ONE 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. 1 204 396-1640 or [www.adama.com/canada/en](http://www.adama.com/canada/en)

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