

2023-2986
2024-12-20

GROUP 1 2 HERBICIDE

CAZADO™

OIL DISPERSION

HERBICIDE

COMMERCIAL (AGRICULTURAL)

For post-emergence grass and broadleaf weeds control and suppression in Spring, Durum and Winter Wheat.

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA

ACTIVE INGREDIENT:

Pinoxaden.....100 g/L
Thiencarbazono-methyl.....8.3 g/L

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: 35344 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1L – 1050L

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

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

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

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Potential skin sensitizer. Avoid contact with clothing.

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

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.

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.

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.

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 beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre IMMEDIATELY. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing, take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for

treatment advice.

TOXICOLOGICAL INFORMATION

No specific antidote is available. Treat the patient symptomatically.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL PRECAUTIONS

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

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

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

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

STORAGE

Store this product away from food or feed. Store in a cool, dry place. Do not store below freezing or at temperatures above 40°C. Shake well before using. Store product in original container only and keep closed. Store away from other pesticides, seeds and fertilizers.

DISPOSAL

Recyclable Container

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

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

Refillable Container

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. **DO NOT** reuse this container for any other purpose.

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

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

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PRODUCT INFORMATION

CAZADO™ is a systemic, post-emergence herbicide for control and suppression of certain grass and broadleaf weeds in Spring, Durum and Winter Wheat.

CAZADO™ 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 control three to five weeks after 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.

CROPS: Spring, Durum and Winter Wheat.

WEEDS CONTROLLED: Wild oats, Green foxtail, Barnyard grass, Yellow foxtail, Volunteer oats, Proso millet, Volunteer canary seed, Wild mustard, Redroot pigweed, Stinkweed, Shepherd's-purse, Hemp-nettle, Volunteer canola, Pale Smartweed, Wild buckwheat and Cleavers.

WEEDS SUPPRESSED: Persian Darnel, Lamb's Quarters, Round-leaved mallow and Russian Thistle.

TIMING OF APPLICATION

CAZADO™ may be applied to the following crops and weeds when at the indicated growth stages:

CROP	RECOMMENDED STAGE	REMARKS
Spring Wheat Durum Wheat	1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node)	DO NOT apply to crop that is under stress due to abnormal environmental conditions such as frost, extreme heat, low fertility, drought, flooding, or disease and/or insect damage as crop injury may result. Under drought conditions (spring and durum wheat only): <ul style="list-style-type: none">DO NOT spray CAZADO™ if time between seeding and spraying exceeds 35 days (as drought hastens crop
Winter Wheat	Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node)	

		development). <ul style="list-style-type: none"> • DO NOT spray CAZADO™ three days prior to or following cold temperatures (3°C or lower). DO NOT treat Wheat under-seeded to forages or legumes.
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GRASS WEEDS	RECOMMENDED STAGE
Wild oats ¹ Green foxtail Barnyard grass Yellow foxtail Volunteer oats Proso millet	1 to 6 leaves, prior to 4 th tiller
Volunteer canary seed	1 to 6 leaves, up to emergence of 2 nd tiller
Persian Darnel ²	1 to 6 leaves, prior to 3 rd tiller

BROADLEAF WEEDS	RECOMMENDED STAGE
Wild mustard Redroot pigweed Stinkweed Shepherd's-purse Hemp-nettle Volunteer canola ³ Pale Smartweed Wild buckwheat Lamb's Quarters ² Round-leaved mallow ²	1 to 6-leaf stage
Cleavers	1 to 6 whorls
Russian Thistle ²	1 to 6-leaf stage, up to 10 cm tall

¹ Including Wild oat biotypes resistant to Group 1 or Group 2 herbicides. For better resistant populations control, a weed stage of 1 to 6 leaves, prior to 3rd tiller is recommended.

² Suppression only.

³ non ALS-tolerant.

CAZADO™ will not control broadleaf weeds resistant to ALS inhibitors (Group 2).

CAZADO™ will not control weeds resistant to both group 1 and group 2 herbicides.

CAZADO™ can be used on all varieties of Spring, Durum and Winter Wheat.

Apply only once per season with ground or aerial equipment.

For optimum results, apply **CAZADO™** to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of **CAZADO™** will not be controlled.

Weed control following application of **CAZADO™** alone 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 **CAZADO™** is delayed until the stress conditions have ended and weeds are once again actively growing.

Do not use **CAZADO™** if another Group 2 grass herbicide has been previously applied in the same season.

Do not use another Group 2 grass herbicide following an application of **CAZADO™** in the same season.

Do not apply on any crop other than Spring, Durum and Winter Wheat, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than Spring, Durum and Winter Wheat. Do not treat Wheat under-seeded to forages or legumes. Do not apply **CAZADO™** on highly sensitive crops such as: Tame Oats, Proso Millet, Red Millet, Crown Millet or Canary Seed.

CAZADO™ alone can be used one hour before rainfall.

RATE OF USE

Apply 600 mL/ha of **CAZADO™**.

Under heavy weed pressure or stressed conditions, an adjuvant may be added to enhance grassy weed control, such as MSO or COC surfactant like Addit™ at 0.5% v/v, or a non-ionic surfactant like Agral® 90 at 0.25% v/v in 50 L to 100L of water per hectare for ground application and in a minimum of 30 L of water per hectare for aerial application.

TANK MIXES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before applying any tank mix that is not specifically recommended on this label.

MIXING INSTRUCTIONS

CAZADO™ must be applied with properly calibrated and clean sprayer equipment. **CAZADO™** is specially formulated to mix readily in water. Prior to adding **CAZADO™** to the spray tank, ensure that the spray tank is thoroughly clean.

1. Fill the spray tank ¼ to ½ full with clean water and begin agitation or bypass.
2. Add any water conditioners, if using.

3. Add tank mix partners, if desired.
4. Add the appropriate rate of **CAZADO™**, directly to the spray tank. Maintain sufficient agitation during both mixing and application.
5. Add any adjuvants, if using
6. Fill the spray tank with balance of water required.
7. Maintain sufficient agitation during both mixing and application of **CAZADO™**.

CAZADO™ may settle if left standing without agitation. If the spray solution is allowed to stand for one hour or more, re-agitate the spray solution for a minimum of 10 minutes before application.

GROUND APPLICATION

1. Water Volume: 50 to 100 litres per hectare.
2. Spray Nozzles: 80° or 110° pre-orifice flat fan or air induction nozzles are recommended. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
3. Pressure: As recommended by the nozzle manufacturer.
4. Apply uniformly at 6 - 8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (S572.1 to 572.3) coarse classification. Boom height must be 60 cm or less above the crop or ground.

AERIAL APPLICATION

Apply **CAZADO™** alone or in tank mixes (ONLY with the recommended tank mix partners that are registered for aerial use).

Conventional piloted aircraft application: DO NOT when wind speed is less than 1 km/h. 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 sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by 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 or a GPS system.

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.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at 1-855-264-6262 or obtain technical advice from the distributor or your provincial or territorial agricultural representative. Application of this specific product must meet and/or conform to the following. Volume: Apply the recommended rate in a minimum spray volume of 30 litres per hectare for conventional piloted aircraft.

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

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

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Spring, Durum and Winter Wheat		1	1	N/A	N/A	1
Aerial	Spring, Durum and Winter Wheat	Fixed wing	1	1	N/A	N/A	55
		Rotary wing	1	1	N/A	N/A	50

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 (ASABE) 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.

SPRAYER CLEAN-OUT INSTRUCTIONS

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

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

ROTATIONAL CROP INFORMATION

Only the following crops have been field tested to indicate they may be safely planted at the prescribed interval after an application of **CAZADO™**. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of **CAZADO™**, follow the crops and replanting interval which appear on this label, and if tank mixing on the label of the tank mix partner, and always observe the most restrictive replanting interval. A field bioassay must be conducted the year prior to growing any other crop of interest to confirm crop safety.

CROP	REPLANTING INTERVAL
Alfalfa	10 months
Barley, spring	10 months
Canaryseed	10 months
Canola	10 months
Chickpeas	10 months

Corn, field	10 months
Dry bean	10 months
Flax, including low linolenic acid varieties	10 months
Lentils	10 months
Mustard	10 months
Oats, spring	10 months
Peas, field	10 months
Soybeans	10 months
Sunflowers	10 months
Timothy	10 months
Wheat, spring, durum and winter	10 months

PRE-HARVEST AND PRE-GRAZING/FEEDING

DO NOT graze the treated crops or cut for forage within 7 days or cut for hay within 30 days of application.

DO NOT harvest spring or durum wheat for grain or straw within 60 days of application.

DO NOT harvest winter wheat for grain or straw within 72 days of application.

If tank mixing, always respect the maximum intervals stated on the labels of all the tank mix products.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **CAZADO™** is a Group 1 and a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **CAZADO™** and other Group 1 and Group 2 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 **CAZADO™** or other Group 1 or Group 2 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 ADAMA Agricultural Solutions Canada Inc. 1-855-264-6262.

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CAZADO™ and ADDIT™ are trademarks of an ADAMA Group Company.
All other products listed are registered trademarks of their respective companies.