

Container label

GROUP	1	HERBICIDE
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<ADAMA BRAND>

Brazen™ 100 EC

EMULSIFIABLE CONCENTRATE AGRICULTURAL

A post emergence herbicide for control of wild oats, green foxtail, yellow foxtail, persian darnel, volunteer oats, volunteer canary seed, and proso millet in Spring Wheat and Barley.

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

ACTIVE INGREDIENT: Pinoxaden 100 g/L
Contains Cloquintocet-mexyl at 25 g/L as a safener

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

CAUTION



POISON

WARNING: EYE AND SKIN IRRITANT

REGISTRATION NO.: **33368** PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L - Bulk

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)

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

PRECAUTIONS

- 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. Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear, and goggles when mixing, loading or during equipment clean-up or repair. Goggles and chemical-resistant gloves are not required during application.
- 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 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, application equipment and sprayer settings.
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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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

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

TOXICOLOGICAL INFORMATION

Brazen™ 100 EC contains materials that may cause severe pneumonitis if aspirated. Treat symptomatically for ingestion and/or skin and eye contact. THIS PRODUCT CONTAINS PETROLEUM DISTILLATES. VOMITING MAY CAUSE ASPIRATION PNEUMONIA.

ENVIRONMENTAL HAZARDS

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

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

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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.

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.

STORAGE

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorised persons and animals. Store separate from food, feed, and fertilizer.

DISPOSAL

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.

CONTAINER DISPOSAL:

FOR DISPOSAL OF PLASTIC JUGS:

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.
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FOR REFILLABLE CONTAINERS:

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NOTICE TO USER

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PAMPHLET

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NOTICE TO USER

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PRODUCT INFORMATION

Brazen™ 100 EC is a systemic, post-emergence herbicide for the selective control of wild oats, green foxtail, yellow foxtail, persian darnel, volunteer oats, volunteer canary seed and proso millet in Spring Wheat and Barley in the prairie provinces and the Interior of British Columbia.

Brazen™ 100 EC 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.

Although Brazen™ 100 EC does not control broadleaf weeds, Brazen™ 100 EC can be tank-mixed with a range of broadleaf herbicides to provide broad spectrum weed control in Spring Wheat and Barley. See section entitled "TANK MIXES of BRAZEN™ 100 EC WITH BROADLEAF WEED HERBICIDES" and refer to the appropriate Tank Mix section.

DIRECTIONS FOR USE

CROPS: Spring Wheat and Barley

Brazen™ 100 EC can be used on all varieties of Spring Wheat and Barley. One application per year is permitted.

Observe a minimum interval to harvest of 60 days after treatment for grain and straw and of 30 days after treatment for hay. Observe a minimum of 7 days before grazing livestock on crops treated with Brazen™ 100 EC.

Do not apply on any crop other than Spring Wheat or Barley, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than Spring Wheat or Barley. Do not treat Spring Wheat or Barley under-seeded to forages. Do not apply Brazen™ 100 EC on highly sensitive crops such as: Tame Oats, Proso Millet, Red Millet, Crown Millet or Canary Seed.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air

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 rain, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay).

Avoid application of this product 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.

Buffer zones:

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

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).

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 wheat and barley	1	0	1

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 (ASAE) category indicated on the labels for those tank mix partners.

ROTATIONAL CROP INFORMATION

For fields treated with Brazen™ 100 EC, no crop may be seeded until the following year. There are no crop rotation limitations the year following application of Brazen™ 100 EC.

WEEDS CONTROLLED: Wild Oats, Green Foxtail, Yellow Foxtail, Persian Darnel, Volunteer Oats, Volunteer Canary Seed and Proso Millet

Perennial grasses such as quack grass will not be controlled.

TIMING OF APPLICATION:

CROP/WEEDS*	GROWTH STAGE** (ZADOKS or BBCH)
SPRING WHEAT BARLEY	1 leaf to flag leaf stage (11, 20 to 37)
WILD OATS GREEN and YELLOW FOXTAIL VOLUNTEER OATS VOLUNTEER CANARY SEED PROSO MILLET PERSIAN DARNEL	1 – 6 leaf, prior to 4 th tiller (11, 20 to 16, 23)

* When tank-mixing with a broadleaf herbicide, always refer to the label of the broadleaf partner prior to use.

** Do not apply past flag leaf stage.

For optimum results, apply Brazen™ 100 EC to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of Brazen™ 100 EC will not be controlled.

Weed control following application of Brazen™ 100 EC 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 Brazen™ 100 EC is delayed until the stress conditions have ended and weeds are once again actively growing.

Brazen™ 100 EC alone can be used one hour 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:

Apply the recommended rate of Brazen™ 100 EC and ADAMA Adjuvant 80, NORAC MSO Spray Adjuvant, Hasten NT, ADIGOR® Adjuvant or Merge Adjuvant in 50 L to 100 L of water per hectare for ground application. When tank-mixing Brazen™ 100 EC with a tank-mix partner, ensure you read the tank-mix partner label for minimum water recommendations.

CROP	WEEDS CONTROLLED	USE RATES	
SPRING WHEAT BARLEY	PERSIAN DARNEL	Brazen™ 100 EC Plus one of ADAMA Adjuvant 80 NORAC MSO Spray Adjuvant Hasten NT ADIGOR Adjuvant or Merge Adjuvant	400 mL/ha 0.25% v/v 0.5% v/v 0.5%v/v 700 mL/ha 700 mL/ha
	WILD OATS GREEN and YELLOW FOXTAIL VOLUNTEER OATS VOLUNTEER CANARY SEED PROSO MILLET	Brazen™ 100 EC Plus one of ADAMA Adjuvant 80 NORAC MSO Spray Adjuvant Hasten NT ADIGOR Adjuvant or Merge Adjuvant	600 mL/ha 0.25% v/v 0.5% v/v 0.5%v/v 700 mL/ha 700 mL/ha

NOTES: Do not tank mix with any other adjuvants, chemical additives, pesticides or fertilizers unless recommended on this label.

TANK MIXES WITH BROADLEAF WEED HERBICIDES:

For broad spectrum weed control of annual grasses and broadleaf weeds, Brazen™ 100 EC can be tank-mixed with broadleaf herbicides as described in the following table. 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.

Tank-Mix Partner¹	Product Rates
Refine [®] SG Herbicide ²	30 g/ha
Refine SG Herbicide + MCPA Ester ³ 500	30 g/ha + 560 - 700 mL/ha
Refine SG Toss-N-Go [®] Herbicide ²	30 g/ha
Refine SG Toss-N-Go Herbicide + MCPA Ester ³ 500	30 g/ha + 560 - 700 mL/ha
Buctril [®] M	1 L/ha
Frontline Herbicide Tank Mix ³	100 mL/ha Frontline A + 840 mL/ha Frontline B
Curtail [®] M	1.5 to 2.0 L/ha
Prestige [™] Herbicide Tank Mix	600 - 800 mL/ha of Prestige A + 1.5 - 2.0 L/ha of Prestige B
Trophy ^{®4} Herbicide Tank Mix	0.6 L/ha Trophy A + 1.12 L/ha of Trophy B
Tank-Mix Partner¹	Product Rates
Mextrol 450 Liquid Herbicide	1.25 L/ha
Estaprop	1.75 L/ha
MCPA Ester (assume 500 series)	840 mL to 1.1 L/ha
MCPA Ester (assume 600 series)	700 – 920 mL/ha
Frontline XL Herbicide	1.25 L/ha
Thumper ³	1.0 L/ha
ADAMA 2,4-D Ester 700 Herbicide	770 mL/ha
2,4-D Ester (assume 600 series)	990 mL/ha
MCPA Amine (assume 500 series)	0.84-1.1 L/ha
GF-184	1.0 L/ha
Infinity [®] Herbicide ⁴	0.83 L/ha
Outshine + MCPA LV Ester 600	1.0 L/ha + 580 mL/ha
¹ Always consult the label of the broadleaf herbicide prior to use.	
² Addition of surfactants other than ADIGOR, MERGE, ADAMA Adjuvant 80, NORAC MSO Spray Adjuvant or Hasten NT are not required.	
³ Suppression only of green foxtail.	
⁴ For control of common ragweed and suppression of round-leaved mallow.	

When tank-mixing, always add the broadleaf herbicide(s) to the spray tank first; followed by Brazen™ 100 EC with ADAMA Adjuvant 80, NORAC MSO Spray Adjuvant, Hasten NT, ADIGOR Adjuvant or Merge Adjuvant added last.

For the appropriate rate of Brazen™ 100 EC with ADAMA Adjuvant 80, NORAC MSO Spray Adjuvant, Hasten NT, ADIGOR Adjuvant or Merge Adjuvant, 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 levels or

extreme temperatures.

MIXING INSTRUCTIONS FOR GROUND APPLICATION:

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
2. If a broadleaf herbicide is to be used, add the product FIRST prior to adding Brazen™ 100 EC and agitate for 2-3 minutes.
3. Add correct amount of Brazen™ 100 EC.
4. Agitate for 2-3 minutes.
5. Add correct amount of ADAMA Adjuvant 80, NORAC MSO Spray Adjuvant, Hasten NT, ADIGOR Adjuvant or Merge Adjuvant.
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.**

SPRAYING INSTRUCTIONS FOR GROUND APPLICATION:

1. Water Volume: 50 to 100 litres per hectare.
2. Spray Nozzles: 80° or 110° flat fan nozzles are recommended for optimal spray coverage. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
3. Pressure: 275 - 310 kPa.
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 an over application.

SPRAYER CLEAN-UP FOR GROUND APPLICATION:

Clean Up Before Spraying:

- Prior to using Brazen™ 100 EC, ensure that the spray tank, lines and filter are thoroughly clean.

Clean Up After Spraying:

- Thoroughly clean application equipment immediately after spraying. To avoid subsequent injury to other crops, immediately after spraying and before spraying other crops, thoroughly remove all traces of Brazen™ 100 EC from mixing and spraying equipment.
- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **Do not** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsings in accordance with provincial regulations.

Resistance-Management Recommendations

For resistance management, Brazen™ 100 EC is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to Brazen™ 100 EC 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 Brazen™ 100 EC 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 IPM 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 1-855-264-6262 or at www.adama.com/canada/en/

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