

2024-1378
2024-06-04

(Container)

Akito™ Herbicide

GROUP	2	4	HERBICIDES
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Akito Herbicide is a selective herbicide for post-emergent control or suppression of annual and perennial broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats.

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

COMMERCIAL (AGRICULTURAL)

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

ACTIVE INGREDIENT:	florasulam	2.5 g/L
	fluroxypyr	100 g/L
	(present as 1-methylheptyl ester)	
	clopyralid	80 g/L

Emulsifiable Concentrate

REGISTRATION NO. 33657 PEST CONTROL PRODUCTS ACT

DANGER – EYE AND SKIN IRRITANT

NET CONTENTS: 1 L - bulk

UPL AgroSolutions Canada Inc.
PO Box 12219
Research Triangle Park, NC 27709
For Product Use Information Call 1-800-438-6071

FOR CHEMICAL EMERGENCY:
spill, leak, fire, exposure, or accident
call CHEMTREC 1-800-424-9300.

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DO NOT apply using aerial application equipment

Severely irritating to the eyes. DO NOT get in eyes. Cause skin irritation. DO NOT get on skin. Avoid inhalation of vapour or spray mist and contact with eyes, skin or clothing.

DO NOT take internally. Handle with care and mix only in a closed container. Use only in a well ventilated area. Wash thoroughly after handling and before eating, drinking, smoking or using the bathroom. Take a shower immediately after work. If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

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

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

DO NOT contaminate domestic or irrigation water, lakes, ditches, streams or ponds by the cleaning of equipment or the disposal of wastes. DO NOT apply where run-off or erosion is likely to occur.

PROTECTIVE CLOTHING AND EQUIPMENT

All Application Equipment

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. In addition, wear protective eyewear (goggles or faceshield) during mixing and loading.

PHYSICAL OR CHEMICAL PRECAUTIONS

COMBUSTIBLE. DO NOT use or store near heat or open flame.

FIRST AID

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.

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TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

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

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

Avoid applying this product 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.

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.

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

STORAGE

Store in original, tightly-closed container and do not allow water to be introduced into this container. Store this product away from food and feed. Store in cool (above 5°C) dry, locked, well-ventilated area without floor drain. If product is frozen, bring to room temperature and agitate before use. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.

DISPOSAL

Recyclable Containers

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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Returnable Containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Containers

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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.

FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

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 any way that is inconsistent with the directions on the label.

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(Booklet)

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GENERAL INFORMATION

Akito Herbicide is a post emergence herbicide for the control of hard-to-kill annual and perennial broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats. DO NOT apply to crops underseeded to legumes. Akito Herbicide is mixed with water and applied as a uniform broadcast spray.

Akito Herbicide MUST be applied early post emergence, to the main flush of actively growing broadleaved weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Akito Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

Akito Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

Akito Herbicide is diluted in water and applied by ground application equipment for the control or suppression of the following broadleaved weeds:

Canada thistle*	kochia (2-8 leaf) ***
canola, volunteer**	narrow-leaved hawk's beard (suppression)
chamomile, scentless	shepherd's purse
chickweed, common	sow-thistle, perennial
cleavers (1-8 whorls)	volunteer
flax dandelion (up to 30 cm in diameter)	wild
buckwheat	

* Season long control, with some regrowth in the fall. Apply from 10 cm to pre-bud stage.

** including glyphosate and glufosinate ammonium tolerant varieties.

*** including ALS resistant biotypes

DIRECTIONS FOR USE

Application Rate: 1 L/ha

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

Aerial application: DO NOT apply using aerial application equipment.

Best results are obtained when Akito Herbicide is applied to actively growing weeds in the seedling stage and when Canada thistle is between 10 cm and up to but not including the early bud stage. Poor weed control may result under cool or dry conditions.

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Apply Akito Herbicide as a ground treatment using enough spray volume to provide adequate spray coverage. Apply a minimum of 100 L/ha total spray volume by ground. Higher spray volumes will provide better coverage and weed control, particularly when the weeds are not actively growing. Maximum 1 application per year.

Crop	Application Timing
wheat (spring, durum and winter) and spring barley	from the-3 leaf to just before flag leaf
oats	from the 3-leaf to the 6-leaf stage

Spray Preparation

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of WG or DF formulation mix partners and continue to agitate
4. Add the required amount of SC formulation mix partners and continue to agitate
5. Add the required amount of Akito Herbicide and continue to agitate.
6. Add the required amount of EC formulation mix partners and continue to agitate
7. Add the required amount of SN or SL formulation mix partners and continue to agitate
8. Add the required amount of surfactants and continue to agitate
9. Fill the sprayer tank with sufficient water to a minimum of 100 L of spray mixture per hectare.
10. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
11. Follow sprayer clean-up directions

The use of flood jet or hollow cone nozzles is not recommended because of uneven and inadequate spray coverage. Ensure thorough and uniform spray coverage over the entire leaf area of the target weeds.

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.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply Akito Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes, tobacco, fruit or vegetable crops, flowers or other desirable broadleaved plant and take precautions to avoid spray mists drifting onto them.

Non-Target Sites

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Precautions section of the label.

Crop Rotation

Fields previously treated with Akito Herbicide can be seeded the following year to wheat, barley, oats and rye (not under-seeded to forage legumes, clover or alfalfa), canola, flax, mustard, field peas, or fields can be summerfallowed. Seed only those crops listed above in the year following treatment.

Note: Do not seed field peas for at least 10 months following treatment. Very dry soil conditions following application can result in a risk of injury to field peas grown in rotation. If severe drought conditions are experienced during the months of June to August inclusive in the year of application, delay seeding field peas an additional 12 months (total 22 months following application). Contact UPL

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AgroSolutions Canada Inc. for more information before seeding field peas following drought conditions in the previous year.

Preharvest/Grazing Interval

- Do not cut the treated crop for hay or graze treated crop within 7 days after application.
- Do not harvest the treated crop within 60 days after application.

Stress Conditions

When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (8°C or less), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

To Reduce Spray Drift

- Use nozzles delivering higher volumes and coarser droplets.
- Use coarse sprays at low pressures (200 to 275 kPa).
- Use a minimum of 100 L/ha of spray solution.
- Spray when the wind velocity is 16 km/hr or less.
- Spot treatments should only be applied with a calibrated boom to prevent over-application.

Equipment Clean-Up

Equipment used to apply Akito Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning.

Sprayer clean-out

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 All Clear Spray Tank Decontaminator plus 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water, 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).
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.

Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

TANK-MIXES WITH AKITO HERBICIDE FOR BROAD SPECTRUM BROADLEAVED WEED CONTROL IN WHEAT, BARLEY AND OATS

Akito Herbicide may be tank-mixed with one of the tank-mix partners indicated in the table below for wide spectrum control. All broadleaved weeds listed elsewhere on this label plus the annual weeds listed below for each tank-mix partner will be controlled by the tank-mix. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Herbicide Tank-Mix Partner	Crops	Tank-Mix partner rate product/ha	Additional Weeds controlled
MCPA Ester 600 (600 g ae/L)	spring wheat durum wheat winter wheat	0.58 – 1.05 L/ha (350-630 g ae/ha)	See tank-mix partner label
	spring wheat durum wheat winter wheat spring barley, oats	0.465 L/ha (280 g ae/ha)	volunteer canola* (1-6 leaf) lamb's quarters (1-6 leaf) <i>*Including imidazolinone tolerant volunteer canola</i>
	oats	0.58 – 0.9 L/ha (350-540 g ae/ha)	See tank-mix partner label
2,4-D Ester 700 (660 g ae/L)	spring wheat durum wheat winter wheat spring barley	0.51 – 1.28 L/ha (340 – 850 g ae/ha)	See tank-mix partner label
		0.425 L/ha (280 g ae/ha)	volunteer canola* (1-6 leaf) lamb's quarters (1-6 leaf) <i>*Including imidazolinone tolerant volunteer canola</i>

TANK-MIXES WITH AKITO HERBICIDE ALONE OR AKITO HERBICIDE + MCPA OR 2,4-D FOR ANNUAL GRASS CONTROL

Akito Herbicide may be tank-mixed with one of the tank-mix partners indicated in the table below for annual grass control. All broadleaved weeds listed elsewhere on this label plus the annual grasses listed below for each tank-mix partner will be controlled by the tank-mix. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Herbicide Tank-Mix Partner	Crops	Tank-Mix Partner Rate	Additional Weeds Controlled
Everest® 2.0	spring wheat durum wheat winter wheat	36-72 mL/ha	green foxtail, wild oats
Simplicity™ GoDRI™	spring wheat durum wheat winter wheat	70 g/ha	barnyard grass, downy brome*, green foxtail (suppression), hemp nettle, Japanese brome, redroot pigweed, smartweed, volunteer canola (excluding Clearfield), wild oats, yellow foxtail
Axial	spring wheat winter wheat barley	1.2 L/ha	barnyard grass, green foxtail, proso millet, tame oats, volunteer canary seed, wild oats, yellow foxtail
Traxos Herbicide	spring wheat durum wheat	1.2 L/ha	barnyard grass, green and yellow foxtail, Persian darnel, proso millet, volunteer canary seed, volunteer (tame) oats, wild oats

* suppressed in the spring season.

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.

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

Buffer Zone Table

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley, oats	1	0	1	1	2

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 that are larger than 1 m 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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Akito Herbicide is a Group 2 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Akito Herbicide and other Group 2 and Group 4 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 Akito Herbicide or other Group 2 and Group 4 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 UPL AgroSolutions Canada Inc. at 1-800-438-6071.

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