

2021-0386
2021-10-29

This label has been updated according to the re-evaluation decision of linuron RVD2020-10. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 05/11/2022 in accordance with the phase out period set out in RVD2020-10. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

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ADAMA

GROUP 7 HERBICIDE

AFOLAN F

HERBICIDE

COMMERCIAL

For the control of labelled broadleaf and grassy weeds on carrots, potatoes, parsnip, asparagus, and shelterbelts.



KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.16363 PEST CONTROL PRODUCTS
ACT

ACTIVE INGREDIENT: Linuron 450 g/L
Contains 1,2-BENZISOTHIAZOLIN-3-ONE at 0.0193% as a preservative

NET CONTENTS: 4-10 LITRES

READ LABEL AND PAMPHLET BEFORE USING
Cancellation Date for Cancelled Uses with an Extended
Phase Out Period

Crops	Last date of use
Celery, Dill	5 November 2024

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

For emergency medical help and health/safety inquires call ProPharma at 1-877-250-9291 (24 hours a day)
For spill, leak or fire call INFOTRAC at 1-800-535-5053 (24 hours a day)

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PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May irritate eyes, nose, throat and skin. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not contaminate feed or foodstuffs. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Apply only where recommended. Do not drain equipment near desirable trees, other plants, or on areas where their roots may extend. Do not spray or rinse tank containing Afolan F Herbicide where the chemical may be washed or moved into contact with the roots of desirable vegetation. Do not use on lawns, walks, driveways, tennis courts or similar areas. Avoid the drifting of spray onto desirable plants.

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.

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

Closed mixing/loading systems are required. A closed system means removing a pesticide from its original container, rinsing, mixing, diluting, and transferring the pesticide through connecting hoses, pipes, and couplings that are sufficiently tight to prevent exposure of any person to the pesticide or rinsing solution. Rinsing is not required when the pesticide is used without dilution.

During application, use a closed cab that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

Limit the amount of product handled per day to [77 kg a.i.] per person for groundboom application when mixing, loading and applying. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to birds.

Toxic to small wild mammals.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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 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.

FIRST AID: Take container, label or product name and Pest Control Product Registration Number

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

TOXICOLOGICAL INFORMATION: Treat Symptomatically. Medical personnel should contact ProPharma at 1-877-250-9291 (24 hours a day).

STORAGE: Keep in original container. CANNOT be stored below freezing. If stored for one year or longer, shake vigorously before using. Store the tightly closed container away from seeds, feed, fertilizer, plants and foodstuffs. Do not store in or around the home. In case of fire, leaking or damaged containers, call toll free 1 800 535-5053.

RECYCLABLE CONTAINER 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.

DISPOSAL OF UNUSED, UNWANTED PRODUCT: 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 cleanup of spills.

DISPOSAL OF UNUSED SPRAY SOLUTION: If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed, NOT ON THE CROP, away from water supplies, ditches, irrigation canals and desirable vegetation.

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.

FOR FURTHER INFORMATION, CONTACT:

ADAMA Agricultural Solutions Canada Ltd.

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300 – 191 Lombard Avenue

Winnipeg, MB R3B 0X1 1-855-264-6262

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AFOLAN F HERBICIDE

COMMERCIAL

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KEEP OUT OF REACH OF CHILDREN REGISTRATION

NO.16363
PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Linuron 450 g/L
Contains 1,2-BENZISOTHIAZOLIN-3-ONE at 0.0193% as a preservative

NET CONTENTS: 4-10 LITRES

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Cancellation Date for Cancelled Uses with an Extended Phase Out Period

Crops	Last date of use
Celery, Dill	5 November 2024

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GENERAL INFORMATION

Do not make more than one application per season except on carrots where two applications at reduced rates are recommended (see directions). Excessive or repeated use of linuron may cause damage to turnips grown on the same land in the following year.

Do not use on sandy or coarse-textured soils low in organic matter (less than 3%).

STORAGE

DO NOT STORE AFOLAN F HERBICIDE WHERE TEMPERATURE MAY GO BELOW 5°C.
KEEP IN ORIGINAL CONTAINER DURING STORAGE.

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.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by aerial application equipment.

BUFFER ZONES

Use of low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage 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, shelterbelts, woodlots, hedgerows, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Buffer zones for uses with continued registration (carrots, parsnip, potato, asparagus, shelterbelts)

Method of application	Crop	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	Potatoes, shelterbelts	5	1	1	1	4
	Carrots, parsnips	4	1	1	1	3
	Asparagus	5	1	1	1	3

Buffer zones for cancelled uses with an Extended phase out period (Dill, Celery)

Method of application	Crop	Interim 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	Celery	5	1	1	1	3
	Dill	4	1	1	1	3

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. The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

MIXING INFORMATION

AFOLAN F HERBICIDE is a special formulation of linuron. CAREFULLY FOLLOW

MIXING INSTRUCTIONS.

- 1) Fill the sprayer half full with clean water.
- 2) **Shake the sealed AFOLAN F HERBICIDE container vigorously.**
- 3) Slowly add AFOLAN F HERBICIDE to the sprayer tank while the bypass or jet agitator is operating.
- 4) Empty the AFOLAN F HERBICIDE container completely letting it drain in a vertical position for 30 seconds.
- 5) Add enough rinse water so that the container is one-fifth to one-quarter full.
- 6) Shake container vigorously then pour into tank and drain for 30 seconds.
- 7) Repeat this rinse procedure three times to ensure that all AFOLAN F HERBICIDE has been transferred to the sprayer tank.
- 8) Finish filling tank after rinsing procedures.

Caution: To avoid settling in sprayer tank, spray AFOLAN F HERBICIDE solution as soon as possible after mixing.

Spraying instructions: Use fifty (50) mesh or larger line strainers or screens. A pump of sufficient capacity to provide adequate volume through the bypass and/or jet agitation system must be used. This will prevent settling-out while spraying. Do not apply using right-of-way sprayers or handheld equipment.

PRE-EMERGENCE USE

The soil should be well prepared and as free as possible from trash and clods. Plant desirable seeds to specified depth or crop injury may result. Sufficient moisture in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds. Best results are obtained when this occurs within two (2) weeks after application. If moisture is insufficient to activate the chemical or if the soil becomes crusted before the crop emerges, weeds may escape. A shallow rotary hoeing should be made before weeds become well established otherwise avoid cultivating or disturbing the sprayed soil. Do not cover treated band with soil while cultivating between rows.

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NOTE: If unusually heavy rains follow pre-emergent application, severe injury to carrots or parsnips may result.

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POST-EMERGENCE USE

carrots, celery, parsnips, and shelterbelts: Treatment gives contact kill of growing annual weeds or suppression of foxtail as well as control of germinating weed seedlings.

REPLANTING

If initial seeding of potatoes, parsnips, or carrots fails to produce a stand, the same crop may be replanted in the AFOLAN F HERBICIDE treated soil. Thoroughly rework the soil before replanting. Do not retreat the field with a second application as injury to the crop may result. Do not replant treated areas to other crops within 12 months after the last application to carrots, potatoes and parsnip. Do not replant treated areas to other crops within 4 months after the last application as injury to subsequent crops may result.

SUSCEPTIBLE WEED

The following weeds can be controlled or suppressed* with AFOLAN F HERBICIDE depending on the rate and size of weeds: MOST ANNUAL GRASSES including green and yellow foxtail, barnyard grass, crabgrass, old witchgrass, fall panicum and goose grass; BROADLEAF WEEDS - annual sowthistle, common chickweed, corn spurry, goosefoot, groundsel, knotweed, kochia, lamb's-quarters, prostrate pigweed, purslane, ragweed, redroot pigweed, shepherd's-purse, smartweed, stinkweed (pennycress), velvetleaf, wild buckwheat, wild radish, wormseed mustard. AFOLAN F HERBICIDE provides control of dandelion, plantain and sowthistle seedlings only. AFOLAN F HERBICIDE will not control established perennial weeds. The addition of an oil concentrate or surfactant is recommended.

*Suppression may occur when the product is used post-emergence on foxtail.

NOTE: Do not graze the treated crops or cut for hay; there are not sufficient data available to support such use.

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Restricted-Entry Intervals (REIs)

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval REI(s) specified in the following tables.

Restricted-Entry Intervals for Uses with Continued Registration carrots, parsnip, potato, asparagus, shelterbelts)

Crop	Post Application activity	REI and/or PHI
Potatoes	All tasks	4 days
Asparagus	All tasks	4 days
Carrots	Scouting	8 days
	All other tasks	2 days
Parsnip	Harvesting	60 days
	Scouting	9 days
	All other tasks	2 days
Shelterbelts	All tasks	6 days

Interim Restricted-Entry Intervals Uses with an Extended Phase Out Period (Dill, Celery)

Crop	Crop/stage	REI
Celery	Post-emergence	Scouting: 7 days All other activities: 4 days
	Pre-emergence only	2 days
Dill	Post-emergence only	Scouting: 9 days All other activities: 2 days
	Pre- and Post- emergence	Pre-emergent: 12 hrs Scouting: 7 days All other activities: 1 day

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ENVIRONMENTAL PRECAUTIONS

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

TOXICOLOGICAL INFORMATION: Treat Symptomatically. Medical personnel should contact ProPharma at 1-877-250-9291 (24 hours a day).

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DISPOSAL OF UNUSED SPRAY SOLUTION: If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, irrigation canals and desirable vegetation.

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OTHER CROPS - EASTERN AND WESTERN CANADA

Follow mixing instructions carefully before spraying AFOLAN F HERBICIDE. VOLUME OF WATER: Use 200 to 400 litres of water per hectare for overall spraying except for fruit trees (follow DIRECTIONS FOR USE **carefully**)

CROP	APPLICATION	METHOD	RATE/HECTARE	
			Muck or Clay Soil with Medium Organic Matter	Loam or Clay Soil with Low Organic Matter.

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CROP	APPLICATION	METHOD	RATE/HECTARE	
			Muck or Clay Soil with Medium Organic Matter	Loam or Clay Soil with Low Organic Matter.

POTATO Plant seed at least 5 cm deep	PRE-EMERGENCE	1) Apply as a broadcast spray just before crop emergence or when tips are completely covered by hilling. Treat before emerged grasses are 5 cm tall and before broadleaf weeds are 15 cm in height. Avoid further cultivation until absolutely necessary.	Maximum 3.9 L	2.7 - 4 L
		2) AFOLAN F HERBICIDE + DUAL. Tank mix AFOLAN F HERBICIDE plus DUAL and apply as a broadcast spray after first hilling before crop or weeds emerge. Avoid further cultivation until absolutely necessary.	2.5 L AFOLAN F HERBICIDE + 2.75 L Dual	1.9 L AFOLAN F HERBICIDE + 2 L Dual

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<p>CARROT, PARSNIP, DILL Plant seed at least 1.3 cm deep</p>	<p>PREEMERGENCE</p>	<p>Apply as a band or broad cast application after planting. Rain or irrigation is needed for good control.</p>	<p>2 - 2.4 L</p>	<p>1.4 - 2 L</p>
	<p>POST- EMERGENCE</p>	<p>Apply only if crops have NOT had a pre-emergence treatment. Spray when crop has 2 or more fully developed leaves. On muck soils, carrots and parsnips must be more than 8 cm tall when spraying. Use lower rates on small seedling weeds and the higher rates on larger established weeds.</p>	<p>2 - 2.4 L (depending on size of weeds)</p>	
		<p>Apply before annual grasses exceed 5 cm in height and before broadleaves exceed 15 cm. On parsnip, if planted in sandy soils do not apply more than 2.7 L. During hot, dry weather, spray in the cool part of the day to avoid injury. Nozzle pressure must not exceed 275 kPa as crop injury may result. AFOLAN F HERBICIDE may be applied after carrot oil provided treatments are at least 1 day apart. Carrot oil may be applied following AFOLAN F HERBICIDE, ALLOWING A 2 WEEK INTERVAL between AFOLAN F HERBICIDE and carrot oil. Shorter intervals may cause crop damage. DO NOT TANK MIX AFOLAN F HERBICIDE WITH HERBICIDAL OIL OR SURFACTANTS.</p>		
	<p>PREEMERGENCE plus POSTEMERGENCE</p>	<p>Apply a maximum of 2 L PRE-EMERGENCE followed by a maximum of 2.7 L POST-EMERGENCE. These treatments must be at LEAST 2 weeks apart or crop injury may result. NEVER apply more than these two applications per season and do not use higher rates. Observe instructions for both preemergence and post-emergence use carefully before using.</p>	<p>1.3L followed by 2 - 2.4 L for carrots 1.3L followed by 2L for parsnips and dill</p>	<p>1.3L followed by 2 - 2.4 L for carrots 1.3L followed by 2L for parsnips and dill</p>

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CELERY	POST-EMERGENC E	Apply to transplants as soon as new growth has started. Some temporary discoloration may occur.	2.7 – 3.73 L	2 - 2.7 L
ASPARAGUS	PRE-EMERGENC E	Apply as a band or a broadcast spray before cutting season immediately following discing and repeat at the end of cutting season after discing.	3.62L	3.62 L

SHELTER - BELTS (Western	Apply –4.8 L before or immediately after weeds emerge, but before they are 10 high. For new plantings of CARAGANA, GREEN ASH, Canada) MANITOBA MAPLE, AMERICAN and SIBERIAN ELM, POPLAR and WILLOW, do not apply until 10 days after transplanting. If leaf buds have opened apply as a directed spray to keep chemical off the leaves. For transplants of WHITE or COLORADO SPRUCE or SCOTCH PINE, at least 2 years old, do not apply until 10 days after transplanting but before the buds open. On ESTABLISHED PLANTINGS of the broadleaf species, direct the spray to the base of the trees to avoid the foliage. WITH ESTABLISHED CONIFERS use a directed spray before buds open in spring. Spray until runoff.
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The following chart is meant to provide a guideline when using AFOLAN F HERBICIDE.

RECOMMENDED		HECTARES TREATED
RATE/HECTARE	(RATE/ACRE)	WITH 1 LITRE OF AFOLAN F HERBICIDE
1.4 L	1.0 pint	0.7
2.0 L	1.4 pints	0.5
2.7 L	2.0 pints	0.4

When applying AFOLAN F HERBICIDE as a band treatment, the above table does NOT apply. Separate calculations must be made for band application.

HERBICIDE RESISTANCE MANAGEMENT: For resistance management, AFOLAN F HERBICIDE is a Group 7 herbicide. Any weed population may contain or develop plants naturally resistant to AFOLAN F HERBICIDE and other Group 7 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 AFOLAN F HERBICIDE or other Group 7 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

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- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262.

FOR FURTHER INFORMATION, CONTACT:
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