



Container label

Laudis® Herbicide

GROUP	27	HERBICIDE
-------	-----------	-----------

SUSPENSION

FOR POSTEMERGENCE CONTROL OF ANNUAL BROADLEAF WEEDS AND ANNUAL GRASSES IN FIELD CORN AND SWEET CORN

FOR USE ONLY IN EASTERN CANADA AND MANITOBA

AGRICULTURAL

ACTIVE INGREDIENT: tembotrione 420 g/L

Contains 2-methyl-4-isothiazolin-3-one at 0.005% and 1,2-benzisothiazolin-3-one at 0.005% as preservatives

REGISTRATION NO. 31721 PEST CONTROL PRODUCTS ACT



EYE IRRITANT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.5 L to Bulk

For product information, call: 1-888-283-6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd S.E.
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day).

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.

DIRECTIONS FOR USE: See the printed booklet provided with this container.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the same area during application.

Protective Clothing and Equipment: Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

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. 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.

ENVIRONMENTAL PRECAUTIONS: 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. 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. This product contains active ingredients that are toxic to aquatic organisms, non-target terrestrial plants and small wild mammals. Observe buffer zones and follow spray drift management recommendations specified under DIRECTIONS FOR USE.

STORAGE: Do not contaminate water, food or feed by storage or disposal. Keep in original container during storage. Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home.

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 requirements.

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

Returnable-Refillable Container: For disposal, this empty 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 use this container for any other purpose.

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.

® LAUDIS is a registered trademark of Bayer.

221020



Booklet label

Laudis® Herbicide

GROUP	27	HERBICIDE
-------	-----------	-----------

SUSPENSION

FOR POSTEMERGENCE CONTROL OF ANNUAL BROADLEAF WEEDS AND ANNUAL GRASSES IN FIELD CORN AND SWEET CORN

FOR USE ONLY IN EASTERN CANADA AND MANITOBA

AGRICULTURAL

ACTIVE INGREDIENT: tembotrione 420 g/L

Contains 2-methyl-4-isothiazolin-3-one at 0.005% and 1,2-benzisothiazolin-3-one at 0.005% as preservatives

REGISTRATION NO. 31721 PEST CONTROL PRODUCTS ACT



EYE IRRITANT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.5 L to Bulk

For product information, call: 1-888-283-6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd S.E.
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day).

Table of Contents:

Section Number

GENERAL INFORMATION	NOTICES	1
	THE PRODUCT	2
SAFETY AND HANDLING	PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT	3
	FIRST AID AND TOXICOLOGICAL INFORMATION	4
	ENVIRONMENTAL PRECAUTIONS AND INFORMATION	5
	STORAGE	6
	DISPOSAL.....	7
DIRECTIONS FOR USE	CROPS AND WEEDS	8
	CROPS AND APPLICATION TIMINGS.....	8.1
	APPLICATION RATE AND WEEDS CONTROLLED	8.2
	RAINFASTNESS	8.3
	TANK MIXTURES	8.4
	APPLICATION INSTRUCTIONS AND USE LIMITATIONS.....	9
	GENERAL REMINDERS FOR SUCCESSFUL OPERATION	9.1
	GROUND APPLICATION	9.2
	SPRAY DRIFT MANAGEMENT AND BUFFER ZONES	9.3
	ROTATIONAL CROPS AND FIELD BIOASSAY.....	9.4
	PRE-HARVEST INTERVAL, PRE-GRAZING/FEEDING INTERVAL, RESTRICTED ENTRY INTERVAL	10
	MIXING INSTRUCTIONS.....	11
	SPRAYER CLEANUP	12
	RESISTANCE MANAGEMENT RECOMMENDATIONS	13

GENERAL INFORMATION

SECTION 1: NOTICES

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.

SECTION 2: THE PRODUCT

LAUDIS Herbicide is a post-emergence herbicide which controls broadleaf and certain grassy weeds in Field and Sweet Corn grown in Eastern Canada and Manitoba utilizing conventional tillage systems.

SAFETY AND HANDLING

SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the same area during application.

Protective Clothing and Equipment:

Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

SECTION 4: FIRST AID AND TOXICOLOGICAL INFORMATION

FIRST AID:

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center 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 center or doctor.• Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">• 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 center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 – 20 minutes.• Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none">• 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: No specific antidote is available. Treat the patient symptomatically.

SECTION 5: ENVIRONMENTAL PRECAUTIONS AND INFORMATION

- 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.
- 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.
- This product contains active ingredients that are toxic to aquatic organisms, non-target terrestrial plants and small wild mammals. Observe buffer zones and follow spray drift management recommendations specified under DIRECTIONS FOR USE.

SECTION 6: STORAGE

Do not contaminate water, food or feed by storage or disposal.

Keep in original container during storage.

Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.

Do not use or store in or around the home.

SECTION 7: 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 requirements.

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

Returnable-Refillable Container: For disposal, this empty 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 use this container for any other purpose.

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.

DIRECTIONS FOR USE

SECTION 8: CROPS AND WEEDS

8.1 CROPS AND APPLICATION TIMINGS

LAUDIS Herbicide is a post-emergence herbicide intended for application as a foliar spray in field and sweet corn. Do not apply LAUDIS Herbicide to corn that exhibits injury from previous herbicide applications. A maximum of two applications may be made in field corn and a maximum of one application may be made in sweet corn.

CROP STAGING:

Crop Stage at Application Timing #	Field Corn	Sweet Corn*
1	2- to 5-leaf stage	2-leaf stage up to and including the 8-leaf stage
2	up to and including the 8-leaf stage	DO NOT APPLY

*Sweet Corn Only

Sweet corn hybrids may vary in their tolerance to herbicides, including LAUDIS Herbicide applied alone or in listed tank mixtures. Since not all sweet corn hybrids have been tested for tolerance to LAUDIS Herbicide, first use of LAUDIS Herbicide applied alone or in a tank mixture should be limited to a small area of each hybrid to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific hybrids of sweet corn to LAUDIS Herbicide, including to listed tank mixtures.

8.2 APPLICATION RATES and WEEDS CONTROLLED

Apply **LAUDIS HERBICIDE** at 145-220 mL/ha depending on the target weeds along with the recommended adjuvant system*. A single application will control/suppress the following annual broadleaf and grassy weeds:

WEEDS CONTROLLED ¹	RECOMMENDED STAGE	Rates
Velvetleaf	up to 6 leaf-stage	145 mL/ha
Redroot Pigweed	up to 6 leaf-stage	
Common Lamb's-quarters	up to 6 leaf-stage	
Common Ragweed ²	up to 6 leaf-stage	
Giant Foxtail ³	up to 2 tillers	
Above listed weeds plus		180 - 220 mL/ha
Kochia ⁴	up to 10 cm in height	
Above listed weeds plus		220 mL/ha
Waterhemp (tall and common)	up to 6 leaf-stage	
Giant Ragweed	up to 6 leaf-stage	
Canada Fleabane ⁵	up to 10 cm height/diameter	
Volunteer Canola ^{6,7}	up to 6 leaf-stage	
Wild Buckwheat ^{3,7}	up to 6 leaf-stage	
Green Foxtail ³	up to 2 tillers	
Hairy Galinsoga	up to 6 leaf-stage	

¹ includes ALS inhibitors (Group 2), Synthetic Auxin (Group 4); Photosystem II inhibitors (Group 5); EPSP synthase inhibitors (Group 9); PPO Inhibitors (Group 14) resistant biotypes.

² For glyphosate-resistant biotypes use 220 mL/ha.

³ SUPPRESSION ONLY

⁴ Use higher rate within the labelled rate range of LAUDIS Herbicide for weed control in dense weed populations or under adverse growing conditions.

⁵ For improved control of Canada Fleabane – field corn only: apply LAUDIS Herbicide in tank mix with one of the dicamba-containing tank mix partners recommended in section 8.4. TANK MIXTURES.

⁶ For control of common groundsel (up to the 4-leaf stage) and improved control of Volunteer Canola apply LAUDIS Herbicide at 220 mL/ha in tank mix with 500 mL/ha of Pardner Herbicide.

⁷ For improved control of Volunteer Canola and control of Wild Buckwheat: LAUDIS Herbicide may be tank mixed with 1.2 L/ha of Aatrex Liquid 480 Herbicide. Maximum of one (1) application per season. Apply at the 2- to 5-leaf stage of field and sweet corn.

***SPRAY ADDITIVES:** LAUDIS Herbicide is a suspension concentrate that requires the use of an external adjuvant. LAUDIS Herbicide is to be used in conjunction with

- a Methylated Seed Oil (MSO) or Crop Oil Concentrate (COC) applied at 1% v/v or a High Surfactant Oil Concentrate (HSOC) at 0.5-1% v/v or Hasten Spray Adjuvant applied at 1.75 L/ha

-plus-

- a liquid nitrogen fertilizer: UAN (28%) at 3.5 L/ha or AMS at 1 kg/ha (99%) or 2 L/ha (49% solution) or 2.5 L/ha (40% solution). If using an ammonium sulphate product with a different concentration, adjust the rate accordingly. Use of a spray-grade liquid nitrogen fertilizer is recommended. Use UAN under conditions of low relative humidity for greater weed control.

Sequential Applications of LAUDIS Herbicide in Field Corn only:

- A repeat application of LAUDIS Herbicide at 145 mL/ha will provide control or suppression of late emerging weeds listed above for the same rate.
- A repeat application of LAUDIS Herbicide at 220 mL/ha will provide control or suppression of late emerging weeds plus control of wild buckwheat and green foxtail.
- The second application should be made at least 10 days after the first application.
- Best results are obtained when applications are made to young actively growing weeds.
- Best control of broadleaf weeds is achieved prior to the 6-leaf stage and actively growing.
- Best control of grass weeds is achieved prior to tillering and actively growing.
- Weed growth ceases within hours after LAUDIS Herbicide is applied. Symptoms on susceptible weed species progress from yellowing and bleaching to necrosis resulting in eventual plant death generally within 7 to 14 days after application.

DO NOT treat more than 150 ha of corn per day.

8.3 RAINFASTNESS:

LAUDIS Herbicide is rainfast 2 hours after application to most weed species.

8.4 TANK MIXTURES

For control of weed species listed for LAUDIS Herbicide alone plus additional weeds, LAUDIS Herbicide may be tank mixed with one of the following herbicides. Consult the label of the tank mix partner for further instructions regarding directions for use, restrictions and precautions, and always observe the largest (most restrictive) buffer zone of the products involved in the tank mixture. Unless prohibited on this or other product labels apply as a broadcast or band application.

LAUDIS Herbicide can be tank mixed with the following herbicides at labelled rates postemergence for additional weed control:

CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS. ALWAYS USE MOST RESTRICTIVE DIRECTIONS ON THE LABEL OF THE PRODUCTS INVOLVED IN THE TANK MIXTURE.

Recommended Tank mix Partners – Field Corn:	Recommended Tank mix Partners – Sweet Corn:
Xtendimax with VaporGrip Technology	Aatrex Liquid 480 Herbicide
Xtendimax 2 with VaporGrip Technology	Pardner Herbicide
Roundup Weathermax with Transorb 2 Technology Liquid Herbicide ¹	
Roundup Transorb HC Liquid Herbicide ¹	
Roundup Xtend with VaporGrip Technology Herbicide ¹	
Roundup Xtend 2 with VaporGrip Technology Herbicide ¹	
Aatrex Liquid 480 Herbicide	
Converge 480 Herbicide	
Pardner Herbicide	
¹ use in corn hybrids with Roundup Ready 2 Technology only	

SECTION 9: APPLICATION INSTRUCTIONS AND USE LIMITATIONS
--

9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION

- DO NOT apply more than two applications of LAUDIS Herbicide to field corn or more than one application to sweet corn, per growing season.
- Do not apply LAUDIS Herbicide to corn that exhibits injury from previous herbicides applications.
- For best results, apply to emerged, young, actively growing weeds.
- LAUDIS Herbicide will have an effect on weeds that are larger than the recommended leaf stage, however the speed of activity and level of control may be reduced.
- Weed control may be reduced if the application is made when weeds are dust covered or in the presence of heavy dew, fog, and mist/rain or when weeds are under stress and not actively growing due to drought, heat, lack of fertility, flooding, or prolonged cool temperatures.
- Under cool and/or dry conditions activity may be reduced or delayed.
- If crop is under stress due to abnormal environmental conditions, delay application until stress passes and after both crop and weeds have resumed active growth.
- Follow directions under Section 8 for the correct rate and timing of application.
- DO NOT apply when wind causes drift to off-site vegetation as injury may occur. LAUDIS Herbicide delivered via drift or tank contamination can cause severe damage to other crops. Careful management of spray drift and tank cleanout is required (refer to section 9.3- SPRAY DRIFT MANAGEMENT and section 12-SPRAYER CLEAN-UP).

9.2 GROUND APPLICATION

- Apply with groundboom equipment only. DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT.
- LAUDIS Herbicide can be applied broadcast in a minimum of 100 litres of water per hectare. For weed control in dense weed populations or under adverse growing conditions, 150 to 200 litres of water per hectare is recommended. Good coverage is essential to achieve optimum weed control.
- Uniform, thorough spray coverage is important to achieve consistent weed control. Select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per hectare (L of water/ha) is increased to maintain coverage of weeds.
- Flat fan nozzles of 80° or 110° are recommended for optimum post emergence coverage. Do not use nozzles that produce FINE (e.g. - Cone) or EXTRA COARSE (e.g. - Flood jet) spray droplets.
- Typically, flat-fan nozzles operated at 200-400 kPa will deliver MEDIUM spray droplets, providing optimum spray coverage and canopy penetration. Lower pressure operation and/or higher volume flat fan nozzles typically deliver COARSE sprays. Refer to nozzle manufacturer catalogs.

- Boom height should be based on the height of the crop – at least 33 centimetres above the crop canopy.
- Air induction nozzles should be used at or near 550 kPa to produce a medium droplet size.
- Proper agitation should be maintained within the tank to keep the product dispersed.

9.3 SPRAY DRIFT MANAGEMENT AND BUFFER ZONES

- 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 inversions, application equipment and sprayer settings.
- Spray drift may result in injury to non target crops or vegetation. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.
- To avoid spray drift, do not apply when wind speed is greater than 15 km/h or during periods of temperature inversions. Do not apply when weather conditions, wind speed or wind direction may cause spray drift to non-target areas.
- The most effective way to reduce drift potential is to apply the largest droplets that provide sufficient coverage and weed control. Applying larger droplets reduces drift potential, but may not prevent spray drift if unfavorable environmental conditions exists (e.g. wind direction toward sensitive areas or wind speed greater than 15 km/h).
- To minimize risk of spray drift, select nozzles and pressures that deliver MEDIUM spray droplets as indicated in nozzle manufacturer’s catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to further reduce spray drift potential, however, application volume per hectare (L of water per hectare) should be increased to maintain coverage and weed control.
- Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non target crops) is minimal (e.g. when wind is 15 km/h or less and is blowing away from sensitive areas).

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 using aerial application equipment.

Buffer zones: Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

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), 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	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Field and sweet corn	1	1	1	1	10

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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

9.4 ROTATIONAL CROPS AND FIELD BIOASSAY

Only the following crops have been field tested to indicate they may be safely planted at the prescribed interval after an application of LAUDIS Herbicide. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of LAUDIS Herbicide, 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.

Immediate plant back*	3-4 months	10 months	22 months
Field Corn, Sweet Corn	Winter Wheat	Soybean Field Corn Sweet Corn Spring Wheat Potato	Dry Beans

* In the event that corn crop treated with LAUDIS Herbicide is lost due to environmental conditions and re-seeding is required, field corn and sweet corn may be reseeded immediately.

ADDITIONAL ROTATIONAL CROP RECOMMENDATIONS

The following crops can be planted after a single application of LAUDIS Herbicide up to 220 mL (92 g tembotrione) per hectare per season.

Crops	Replanting Intervals
Canola	10 months

FIELD BIOASSAY:

Select a representative area or areas of the field previously treated with LAUDIS Herbicide to plant your bioassay crop(s). Be sure to consider factors such as size of field, soil texture, drainage and turn-around areas when selecting the site(s) that are most representative of the conditions in the field. On large fields, more than one site may be needed in order to obtain reliable results. Plant the test strips perpendicular to the direction in which the field was sprayed. The strips should be long enough to cross the width of several spray swaths. Large test strip areas are more reliable than small ones. Use standard tillage and seeding equipment to plant the bioassay. Prepare a seed bed and plant the crops and varieties you want the option of growing the following year. It is important to use the same planting time, conditions, techniques and cultural practices you normally use to plant and grow the bioassay crop(s). Also, plant into an adjacent area not treated with LAUDIS Herbicide to use as a comparison. As the crop(s) emerges and grows, examine these key points in LAUDIS Herbicide-treated and non-treated areas:

- crop stand
- root development
- rate of growth
- plant colour and vigour
- yield

Allow the bioassay crop(s) to grow to maturity while making your observations. Do not overspray the test strips with herbicides that may damage the bioassay crop(s). If the bioassay indicates that LAUDIS Herbicide residues are still present, continue cropping only to those crops listed on the label, and do not rotate to other crops until bioassay results indicate that susceptible crops are growing normally. **DO NOT ROTATE TO OTHER CROPS UNTIL BIOASSAY INDICATES NORMAL GROWTH WITH NO YIELD REDUCTIONS.**

SECTION 10: PRE-HARVEST-, PRE-GRAZING/FEEDING, RESTRICTED ENTRY INTERVALS

- DO NOT apply LAUDIS Herbicide within 45 days of harvesting corn forage.
- Do NOT graze livestock within 45 days of applying LAUDIS Herbicide.
- If tank mixing, always respect the maximum pre-harvest/-grazing interval stated on the labels of all the tank mix products.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

SECTION 11: MIXING INSTRUCTIONS

LAUDIS Herbicide must be applied with clean and properly calibrated equipment. Prior to adding LAUDIS Herbicide, ensure that the spray tank, filters and nozzles have been thoroughly cleaned and that agitation system is properly working.

1. Fill spray tank with 50% of the required volume of water, and begin agitation.
2. Add the appropriate amount of LAUDIS Herbicide slowly to the spray tank or mixing system and ensure complete dispersion. Maintain and ensure thorough dispersion and sufficient agitation during both mixing and spraying.
3. If tank mixing with another pesticide, add the tank mix product next.
4. Add the adjuvant.
5. Add nitrogen fertilizer.
6. Fill the spray tank with balance of water needed.

Proper agitation should be maintained within the tank to keep the product dispersed.

Apply LAUDIS Herbicide spray mixtures within 24 hours of mixing to avoid product degradation.

SECTION 12: SPRAYER CLEANUP

Cleaning Equipment After LAUDIS Herbicide Application

Special attention must be given to cleaning equipment before spraying a crop other than corn. Mix only as much cleaning solution as needed.

1. Flush tank, hoses, boom and nozzles with clean water.
2. Prepare a cleaning solution of 1 gal of household ammonia per 25 gallons of water. Many commercial spray tank cleaners may be used.
3. Use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. If a pressure washer is not available, completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
4. Flush hoses, spray lines, and nozzles for at least 1 minute with the cleaning solution.
5. Dispose of rinsate from steps 1-3 in an appropriate manner.
6. Repeat steps 2-5.
7. Remove nozzles, screens and strainers and clean separately in the ammonia solution after completing the above procedures.
8. Rinse the complete spraying system with clean water.

SECTION 13: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, LAUDIS Herbicide is a Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to LAUDIS Herbicide and other Group 27 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:

1. Where possible, rotate the use of LAUDIS Herbicide or other Group 27 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
2. 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.
3. 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.
4. Monitor treated weed populations for 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 using 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.
5. Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
6. 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.
7. For further information or to report suspected resistance contact Bayer via internet at www.cropscience.bayer.ca or telephone at 1-888-283-6847.

® LAUDIS, Converge, Pardner, Roundup WeatherMAX, Roundup Ready, Transorb, VaporGrip and XtendiMax are registered trademarks of Bayer.

All other products are registered trademarks or trademarks of their respective companies.

221020