



GROUP	2	HERBICIDE
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LUXXUR™ A Herbicide

50% Water Soluble Granules

FOR SALE FOR USE ON WHEAT (SPRING, WINTER AND DURUM)

COMMERCIAL

READ THE LABEL AND THIS BOOKLET BEFORE USING

REGISTRATION NO.: 32458 *PEST CONTROL PRODUCTS ACT*

Warning, contains the allergens milk and sulfites

GUARANTEE: Tribenuron-methyl 50%

WARNING – EYE IRRITANT
POTENTIAL SKIN SENSITIZER

Product Information: 1-888-283-6847

www.cropscience.bayer.ca

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)

Manufactured by E. I. du Pont de Nemours and Company

PRECAUTIONS:

WARNING - EYE IRRITANT.

POTENTIAL SKIN SENSITIZER.

DO NOT APPLY BY AIR.

KEEP OUT OF REACH OF CHILDREN.

MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AVOID

BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

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.

WEAR SUITABLE CHEMICAL RESISTANT GLOVES AND GOGGLES OR FACE SHIELD DURING MIXING AND LOADING.

MAY IRRITATE SKIN AND EYES. WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE.

DO NOT ENTER OF ALLOW WORKER ENTRY INTO TREATED AREAS FOR 12 HOURS FOLLOWING APPLICATION.

FIRST AID:

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 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 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 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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

ENVIRONMENTAL HAZARDS:

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

IMPORTANT INFORMATION - READ BEFORE USING

Injury to or loss of desirable trees, shrubs, flowers, vegetables, fruits or other vegetation may result from failure to observe the following: Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on crops.

DO NOT APPLY BY AIR.

Do not apply in high winds.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, winter wheat and durum wheat. Thoroughly clean all traces of tank mix from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Wash away any spray mixture from the outside of spray tank, nozzle or spray rig.

DO NOT APPLY LUXXUR A HERBICIDE WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

GENERAL INFORMATION

LUXXUR A Herbicide provides control of certain broad-leaved weeds in wheat (spring, winter and durum). Warm, moist, growing conditions promote active weed growth and enhance the activity of LUXXUR A Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. LUXXUR A Herbicide may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

LUXXUR A Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

DIRECTIONS FOR USE:

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.

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, rangelands, 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.

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Aquatic Habitats of Depths:		Terrestrial Habitats
		Less than 1 m	Greater than 1 m	
Field sprayer*	Wheat (spring, winter and durum)	1	0	4

* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations 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.

Ensure to consult the labels of the tank-mix partners and observe the geographic use zone restrictions for the products involved in the tank mixture.

FOR WEED CONTROL IN WHEAT (SPRING, DURUM AND WINTER)

LUXXUR A Herbicide + LUXXUR B Herbicide

TANK MIX PARTNER	PRODUCT RATES	WEEDS CONTROLLED	GROWTH STAGE TIMING
LUXXUR A Herbicide +	15 g/ha +	Weeds controlled by LUXXUR B Herbicide alone plus	Wheat (spring and durum) may be treated from 2 to 6 leaf stage on main stem, plus 3 tillers, but prior to jointing (presence of first node). Winter wheat may be treated when the majority of plants have two leaves to full tillering, but prior to jointing (presence of first node).
LUXXUR B Herbicide	0.5 L/ha	Canada thistle ^{1,2} , Perennial sowthistle ^{1,2} Dandelion Scentless chamomile Narrow-leaved hawk's-beard Lamb's quarter ¹ Cow cockle	Weed growth stages: Canada thistle and Perennial Sowthistle ^{1,2} : up to 15 cm in height. Dandelion: up to 20 cm in diameter; Scentless chamomile: up to 10 cm in height; Narrow-leaved hawk's-beard: prior to bolting; Lamb's quarter ¹ and cow cockle: up to 10 cm in height.

1. For control of Canada thistle, perennial sowthistle and lamb's quarter, the addition of an additive is required as follows:
 - a. **Spring and winter wheat:** add a non-ionic surfactant (Agral 90, AgSurf or Surf 92) at 0.25% or add ammonium sulphate at 500 g/ha (99%) or 1 L/ha (49% solution) or 1.25 L/ha (40% solution). If using an ammonium sulphate product with a different concentration, adjust the rate accordingly.
 - b. **Durum wheat:** add a non-ionic surfactant (Agral 90, AgSurf or Surf 92) at 0.25%.
2. Season long control, with some regrowth in the fall.

MIXING INSTRUCTIONS:

1. Add one-third of the necessary volume of water to the spray tank.
2. With the agitator running, add the required amount of LUXXUR A Herbicide. Ensure that the herbicide is completely dissolved before adding other components of the tank mix.
3. When LUXXUR A Herbicide is completely dissolved, add the required amount of the appropriate tank mix partners.
4. **Specific Tank Mix Instructions:**

LUXXUR A Herbicide + LUXXUR B Herbicide: once LUXXUR A Herbicide is completely dissolved, add the required amount of LUXXUR B Herbicide, then add required amount of non-ionic surfactant or ammonium sulphate last.

5. Add the rest of the water. If an antifoam agent is required, add this last.
6. Use a minimum spray volume of 55 L/ha.
7. For repeat loads, reduce the tank heel to 10% or less of the previous load. Fill tank with fresh water as described in step 1, and continue as directed. Emulsifiable concentrates may make it more difficult to dissolve LUXXUR A Herbicide. For that reason, tank heels of the previous tank mix should be kept to 10% or less of the spray tank volume.
8. If the spray preparation is left standing without agitation, thoroughly agitate to resuspend the tank mixture before spraying. Use spray preparation of LUXXUR A Herbicide Tank Mix within 24 hours or product degradation may occur.

MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

Observe the rotational cropping restrictions stated on the LUXXUR B Herbicide label.

EQUIPMENT-SPRAY VOLUMES

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon).

Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles. Do not apply with more than 275 kPa spray pressure.

DO NOT APPLY BY AIR.

SPRAYER CLEANUP

To avoid subsequent injury to crops other than wheat, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of LUXXUR A Herbicide from mixing and spray equipment as follows:

1. Drain tank and flush tank, boom and hoses with clean water. If boom is equipped with multiple nozzle bodies, be sure to rotate through all nozzles to ensure clean water reaches all parts of these assemblies.
2. Visually inspect tank to ensure removal of all visible herbicide residues. If necessary, repeat Step 1.
3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) or equivalent amount of a sprayer tank cleaner containing ammonia, per 100 liters of water. Ammonia will not neutralize the herbicide, but helps dissolve dried – on herbicide deposits. Use of a wetting agent in the cleaning process will assist in removing oily residues.
4. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
5. Drain the tank.
6. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
7. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.
8. Dispose of tank rinseate according to provincial directions.

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, LUXXUR A Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to LUXXUR A Herbicide and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- ◆ Where possible, rotate the use of LUXXUR A Herbicide or other Group 2 herbicide 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 Bayer via internet at www.cropscience.bayer.ca or telephone at 1-888-283-6847.

USE PRECAUTIONS:

Preharvest Interval (PHI): Allow at least 30 days between application and harvest.

Do not apply to irrigated land where tail water will be used to irrigate other cropland.

Do not contaminate irrigation water.

If rain occurs soon after application, control may be reduced. At least 4-6 hours of dry weather is needed to allow the tank mixture to be absorbed by weed foliage. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

Use a maximum of 15 grams of LUXXUR A Herbicide per hectare per year

Do not remove soil from treated fields for use on lawns, in gardens or for backfill.

OVERSPRAY OR DRIFT TO IMPORTANT WILDLIFE HABITATS SUCH AS SHELTERBELTS, WETLANDS, SLOUGHS OR DRY SLOUGH BORDERS, OR WOODLOTS, SHOULD BE AVOIDED. Observe buffer zones specified under DIRECTIONS FOR USE.

Control of weeds growing in wheel tracks may be reduced if LUXXUR A Herbicide is applied under dry, dusty conditions.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Bayer at 1-888-283-6847 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Bayer CropScience Inc.

STORAGE AND DISPOSAL

STORAGE: Store products in original containers in a secure, dry area away from fertilizer, seeds, food or feed. Not for use or storage in or around the home. Keep container tightly closed.

DISPOSAL:

For 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.
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.

For refillable containers:

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

For returnable containers:

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

For all package types:

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.

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. The user assumes the risk to persons or property that arises from any such use of this product.

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