



# Rexade™ A Herbicide

with ARYLEX™ ACTIVE

GROUP	2	4	HERBICIDES
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For postemergent control of annual grasses and broadleaf weeds in spring wheat, durum wheat and winter wheat

AGRICULTURAL

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

ACTIVE INGREDIENT:	halauxifen, present as methyl ester	5%
	pyroxsulam	15%

Wettable granules

REGISTRATION NUMBER 32520 PEST CONTROL PRODUCTS ACT

**CAUTION - EYE IRRITANT**

NET CONTENTS: 100 g - bulk

**Dow AgroSciences Canada Inc.**

2400, 215 – 2<sup>nd</sup> Street SW

Calgary, Alberta

T2P 1M4

1-800-667-3852

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## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. During mixing, loading, application, clean-up and repair workers must wear coveralls over long sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks as well as goggles or face shield.. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes IMMEDIATELY. After use, wash hands and other exposed skin. Avoid breathing spray mist. Apply only when there is a very low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. To determine the risk of drift, take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## **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. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

## **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe 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 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.

## **STORAGE**

Store in original containers in a secure, dry heated storage. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste. To prevent contamination store this product away from food or feed.

## **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.
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 Containers:**

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

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.

**GENERAL INFORMATION**

Rexade A Herbicide is a selective postemergence herbicide for the control of annual grasses and broadleaved weeds in spring wheat, durum wheat and winter wheat. Rexade A Herbicide is mixed with water and applied as a uniform broadcast spray.

Rexade A Herbicide **MUST** be applied postemergence, to the main flush of actively growing weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Rexade A 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.

Rexade A Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) 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.

**MODE OF ACTION**

Rexade A Herbicide contains a Group 2 and a Group 4 mode of action herbicide. The Group 2 mode of action herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids required for plant growth. The Group 4 mode of action herbicide disrupts normal plant growth regulation resulting in death of susceptible plants.

**GENERAL USE PRECAUTIONS****Sensitive Plants**

Do not apply Rexade A 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 or tobacco.

**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 Hazards section of the label.

**Crop Rotation**

Fields can be seeded 11 months following an application of Rexade A, with the following crops: spring barley, spring wheat, oats, canola, flax, brown and yellow mustard, canola quality Brassica juncea, field peas and soybean or fields can be summerfallowed. Sunflowers can be planted 10 months and lentils 22 months after application of Rexade A.

This product has potential to leach. Do not apply excessive irrigation. Do not use in successive years at the same site.

**Tank Mixtures**

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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or [www.dowagro.ca](http://www.dowagro.ca) 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 Dow AgroSciences Canada Inc.

### **Spray Equipment Precaution**

Do not apply through any type of irrigation system.

### **To Reduce Spray Drift:**

1. Use nozzles delivering higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/hr or less.
5. Spot treatments should only be applied with a calibrated boom to prevent over-application.

### **Sprayer Clean-Out Instructions**

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 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.

### **DIRECTIONS FOR USE**

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

Do not enter or allow worker entry into treated area for 12 hours following application or until sprays have dried.

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.

## APPLICATION METHODS

### (1) Ground Application

Using ground equipment, apply Rexade A as a broadcast treatment at the recommended rate as specifically listed in the DIRECTIONS FOR USE section of this label.

#### 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.

### (2) Aerial Application

#### Directions for Use

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. **Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.**

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a GPS system.

#### Aerial application

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

#### Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good agricultural practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

#### Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

## REXADE A HERBICIDE APPLIED ALONE

### Crops Registered

spring wheat, durum wheat and winter wheat

### Application Directions

For control of the following listed weeds, apply Rexade A Herbicide at 100 g/ha in 50 - 100 L per hectare of water by ground or in a minimum of 30 L per hectare by air. Apply Intake Adjuvant at 0.5 to 1.0% v/v (5 L Intake Adjuvant /1000 L spray mixture to 10 L Intake Adjuvant /1000 L spray mixture) or a non-ionic surfactant (NIS) at 0.25% V/V. Use the higher rate of Intake Adjuvant under adverse conditions, such as dense weed population, late weed growth stage, or poor environmental conditions. Apply in the spring to spring wheat and durum wheat from the 3 leaf expanded to just before the flag leaf stage and to winter wheat in the 2-7 leaf, 4 tiller stage. Apply when weeds are actively growing at the 1-8 leaf stage, unless otherwise specified. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

### Weeds Controlled or Suppressed by Rexade A Herbicide

#### Weeds Controlled:

alfalfa, volunteer (up to 25 cm in height)	hemp nettle <sup>††</sup>
barnyard grass (1-5 leaf)	lamb's-quarters <sup>†††</sup>
brome, Japanese (1-6 leaf)	oats, wild (up to 4 leaf, 2 tiller)
buckwheat, wild	pigweed, red-root <sup>†††</sup>
canola, volunteer <sup>†</sup> (1-6 leaf)	ragweed, common (up to 6-leaf stage) <sup>††††</sup>
chickweed, common (up to 10 cm)	round-leaved mallow (up to 6 leaf stage, <10 cm in size)
cleavers <sup>†††</sup> (1 to 9 whorl)	smartweed (lady's-thumb, 1-5 leaf)
corn spurry (up to 2 whorl stage, <10 cm in height)	shepherd's purse (up to 30 cm tall)
cow cockle	stinkweed (up to 30 cm tall)
fleabane, Canada (up to 15 cm in height) <sup>††††</sup>	white cockle (season-long control, up to the bud stage, less than 15 cm in height)
flixweed (up to 10 cm)	stork's-bill (up to the 8-leaf stage)
foxtail, yellow (1-5 leaf)	velvetleaf (up to the 5-leaf stage)
flax, volunteer (up to 15 cm in height)	

#### Weeds Suppressed:

brome, downy (2-6 leaf, 4 tillers)	kochia <sup>††, †††</sup>
Canada thistle (up to 30 cm tall, prebud)	night flowering catchfly (up to bolting stage, 15 cm in height)
dandelion (seedlings and over-wintered rosettes less than or equal to 20 cm)	Russian thistle (up to 10 cm tall)
foxtail, green (1-5 leaf)	sow-thistle, annual (up to 5 leaf stage)

<sup>†</sup>will not control volunteer Imidazolinone-tolerant canola

<sup>††</sup> light to moderate infestations (up to 150 plants/m<sup>3</sup>; up to 15 cm in height)

<sup>†††</sup> including Group 2 resistant biotypes

<sup>††††</sup> including Group 2 and 9 resistant biotypes

### Mixing Instructions

1. Fill sprayer tank 1/2 full of water
2. Start sprayer tank agitation
3. Add the required amount of Rexade A Herbicide
4. Complete filling the sprayer tank with sufficient water to spray 50-100 L of spray mixture per hectare by ground and 30 L of spray mixture by air.
5. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes)
6. Follow sprayer clean-up directions

### Pre-Harvest/Grazing Intervals

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

## TANK-MIX COMBINATIONS WITH REXADE A HERBICIDE

### Crops Registered

Spring wheat, winter wheat and durum wheat

### Application Directions

Tank mixtures of Rexade A Herbicide with 2,4-D Ester at rates of 280 to 420 g ae/ha will provide control of additional broadleaved weeds (see table below). Apply when crops and weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Rexade A Herbicide and tank-mix partner labels.

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 all product labels.

ADJUVANT IS NOT REQUIRED WHEN REXADE A IS TANK MIXED WITH 2,4-D ESTER FORMULATIONS.

Tank Mix Partner	Tank Mix Partner Rate	Additional Weeds Controlled
2,4-D ester	280 g ae/ha (e.g., 425 mL/ha of 2,4-D ester 700)	volunteer Clearfield canola (1-6 leaf)
2,4-D ester	350 g ae/ha (e.g., 530 ml/ha of 2,4-D ester 700) to 420** g ae/ha (e.g., 636 ml/ha of 2,4-D ester 700)	annual sunflower, bluebur, burdock, cocklebur, mustard (except dog and green tansy), plantain, prickly lettuce, ragweeds, Russian thistle, sweet clover, wild radish

\*\* Use higher rate under cool or dry conditions, and under heavy infestations

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

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat
			< 1 m	> 1 m	
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley		1	1	2
Aerial	Spring wheat, durum wheat, winter wheat,	Fixed wing	5	1	90
		Rotary wing	5	1	75

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 drift 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.

### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management Rexade A Herbicide is a Group 2 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Rexade A 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 Rexade A 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 treated 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

**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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Label Code: CN-32520-005-E

Replaces: CN-32520-004-E

Specimen Label Notes

Add weeds (alfalfa, Canada fleabane, common ragweed, stork's bill, velvetleaf)