

2024-0709  
2024-03-06

**[Container Label]**

**GROUP 4 HERBICIDE**

## **ESTEEM ALL IN™**

Emulsifiable Concentrate

### **COMMERCIAL (AGRICULTURAL)**

ESTEEM ALL IN™ provides control of annual broadleaved weeds, hard-to-kill annual broadleaved weeds and perennial broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats.

**ACTIVE INGREDIENTS:**

Fluroxypyr, present as 1-methylheptyl ester	59.7 g/L
Clopyralid	40.0 g/L
MCPA, present as 2-ethylhexyl ester	240.5 g/L

**WARNING – EYE and SKIN IRRITANT  
WARNING, contains the allergen soy**

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

REGISTRATION NO. 35128 PEST CONTROL PRODUCTS ACT

**For emergency medical help and health/safety inquiries call ProPharma Group 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)**

NET CONTENTS: 0.5 – 1050L

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

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

DO NOT get on skin. Causes skin irritation.

May irritate eyes. Avoid contact with eyes. Avoid breathing spray mist or vapour.

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

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

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

### **PROTECTIVE CLOTHING AND EQUIPMENT**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

For application using ground equipment: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, a hat, socks and chemical-resistant footwear. Gloves are not required during application within a closed cab.

For application using aerial equipment: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cockpit.

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system.

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

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.

### **OPERATOR USE PRECAUTIONS**

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

### **FIRST AID**

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

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not

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induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## **TOXICOLOGICAL INFORMATION**

Contains petroleum distillate. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness.

## **AGRICULTURAL CHEMICAL**

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

## **ENVIRONMENTAL PRECAUTIONS**

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

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

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

## **STORAGE**

Store this product away from food or feed.

Store in original tightly closed containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

## **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.

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**Returnable Containers:**

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.

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**[Booklet Label]**

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Avoid application when heavy rain is forecast.

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**GENERAL INFORMATION**

ESTEEM ALL IN™ is a selective postemergence herbicide for the control of broadleaved weeds in spring wheat, durum wheat, winter wheat, spring barley and oats (not under seeded to legumes).

ESTEEM ALL IN™ provides control of annual broadleaved weeds, hard-to-kill annual broadleaved weeds and perennial broadleaved weeds. The components of ESTEEM ALL IN™ move within the plant to control exposed and underground plant tissues. It mimics naturally occurring plant hormones which control weeds by disrupting normal plant growth patterns. Symptoms of effect include epinasty (twisting of the stems) and swollen nodes.

**GENERAL USE PRECAUTIONS**

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 UNDERSEEDED WITH LEGUMES.
- Do not use in greenhouses.

**To minimize spray drift to non-target areas:**

1. Minimize drift by using sufficient spray volume to ensure coverage with ASAE coarse droplet sizespray.
2. Keep ground-driven spray booms as low as possible and not exceeding 60 cm above the target surface.
3. Spray when wind is less than 8 km/hr.

Do not spray in dead calm near sensitive plants. The “cloud” of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden.

Extreme growing conditions such as:

- Drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth.
- Wet foliage at the time of application may result in reduced weed control.
- Over-application may result in crop injury.
- Make only 1 application per year.
- Do not apply through any type of irrigation system.

**Sprayer clean-out**

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.



1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
  - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
  - Agitate and circulate for 15 minutes, and flush through booms and hoses.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.
3. Second rinse:
  - Fill the tank with clean water.
  - Add All Clear Spray Tank Decontaminator, or Clean-Out Spray Tank Cleaner, or 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water, or similar tank cleaning agent 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.

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

### **SENSITIVE PLANTS**

Do not apply ESTEEM ALL IN™ directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers, fruit, and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

### **ROTATIONAL CROP RESTRICTIONS**

Fields previously treated with ESTEEM ALL IN™ can be seeded to wheat, barley, oats and rye (not under-seeded to forage legumes, clover or alfalfa), canola, field peas, flax, forage grasses, mustard, or can be summer-fallowed. Seed only those crops listed above in the year following treatment. Do not seed to field peas for at least 10 months following treatment. Very dry soil conditions following application can result in a risk of injury to field peas grown in rotation. If severe

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drought conditions are experienced during the months of June to August inclusive in the year of application, delay seeding field peas an additional 12 months (total 22 months following application). Contact your local ADAMA Agricultural Solutions Canada Ltd. representative or retailer for more information before seeding field peas following drought conditions in the previous year.

### **PRE-HARVEST/GRAZING INTERVALS**

- Do not cut or graze treated fields of wheat, barley or oats within 7 days after application.
- Do not harvest wheat, barley or oats within 60 days after application, or within 7 days after application when harvesting for forage.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

### **TANK MIXTURES**

This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before applying any tank mix that is not specifically recommended on this label.

### **DIRECTIONS FOR USE**

ESTEEM ALL IN™, applied with ground or aerial application equipment (see Application Directions section), will provide wide spectrum broadleaved weed control in spring wheat, durum wheat, winter wheat, spring barley and oats.

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

#### **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. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor span.

### **SPRAY BUFFER ZONES**

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A spray buffer zone is NOT required for:

- Uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat	
		Less than 1m	Greater than 1 m	Less than 1m	Greater than 1 m		
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley, seedling and established tall fescue grown for seed, seedling and established forage grasses grown for seed, canary seed, improved pastures	1	0	1	1	1	
Aerial sprayer	Spring wheat, durum wheat, winter wheat, spring barley, seedling and established tall fescue grown for seed, seedling and established forage grasses grown for seed, canary seed	Fixed wing	4	0	1	1	70
	Rotary wing	1	0	1	1	55	

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

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

**DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.**

**I. Low Rate:** To control the following weeds apply a uniform spray containing 1.8 L/ha of ESTEEM ALL IN™.

**Weeds Controlled**

- |                                   |                  |
|-----------------------------------|------------------|
| buckwheat, wild (1-8 leaf)        | plantain**       |
| burdock                           | prickly lettuce  |
| cleavers (1-8 whorls)             | ragweeds         |
| Canada thistle (low infestations) | shepherd's purse |

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cocklebur	stinkweed
field horsetail**	stork's-bill (1-8 leaf)
flax, volunteer (1-12 cm)	sunflower, annual
flixweed (spring seedling 2-4 leaf)	sunflower, volunteer
kochia***	vetch
lamb's-quarters	wild radish
mustard, wild	

**II. High Rate:** To control the above weeds plus the following weeds apply a uniform spray containing 2.4L/ha of ESTEEM ALL IN™.

### Weeds Controlled

buckwheat, tartary	mallow, round-leaved (1-6 leaf)
Canada thistle* (medium to high infestations)	pigweed, red-root
canola, volunteer	pigweed, Russian
chickweed, common (up to 6 cm) ***	scentless chamomile
dandelion (spring rosettes only)	smartweed
groundsel, common	sowthistle, annual
hemp-nettle (2-6 leaf)	sowthistle, perennial*

\* Season long control, with some regrowth in the fall (top growth control).

\*\* Top growth control only

\*\*\* Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

The active ingredients in this tank mixture will only control chickweed that is emerged at time of application. Chickweed plants which emerge after application will not be controlled. To improve the reduction in chickweed population at the end of season, delay the timing of application as late as possible to when the majority of chickweed plants have emerged. The reduction in chickweed population will also be improved in crops which are more competitive and which allow limited light penetration.

**NOTE:** ESTEEM ALL IN™ activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

### Timing of Application

Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat, spring barley and oats are in the 3-leaf to just before the flag leaf emergence stage. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage. Do not apply later than the flag-leaf emergence stage. Maximum of 1 application per year.

### Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of ESTEEM ALL IN™.
4. Fill the sprayer tank with sufficient water (see water volumes in Application Directions section). Maintain sufficient agitation in the spray tank during mixing and spraying to ensure a uniform spray mixture.

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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 as listed.

## **APPLICATION DIRECTIONS (GROUND AND AERIAL APPLICATIONS)**

### **(1) Ground Application**

Using ground equipment, apply ESTEEM ALL IN™ alone or with tank mix partners as a broadcast treatment. Apply ESTEEM ALL IN™ alone at the recommended rates in a spray volume of 50-100 L water/ha. When tank mixing, refer to the label of the tank mix partner label for additional instructions, water volumes, precautions and weeds controlled.

### **(2) Aerial Application**

#### **Do not use human flaggers.**

Use ESTEEM ALL IN™ alone or tank mixed with a product registered for aerial application as a broadcast treatment. Apply the recommended rates of ESTEEM ALL IN™ and tank mix partner as indicated elsewhere on this label. Apply in a spray volume of 30-50 L water/ha. Refer to the tank mix partner label for additional instructions, precautions and weeds controlled.

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.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good 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**

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing should be laundered regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-855-264-6262 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 30-50 litres per hectare.

The interaction of many equipment-and-weather-related factors determine the potential for spray

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drift.

Users are responsible for considering all these factors when making decisions.

The following drift management requirement must be followed to avoid off-target drift movement from aerial applications: Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

### TANK MIXES WITH ESTEEM ALL IN™ FOR ANNUAL GRASS CONTROL

Tank mixtures of ESTEEM ALL IN™ with other herbicides will provide control of additional weeds. Read all precautions, minimal interval to harvest and directions for use on the ESTEEM ALL IN™ and tank-mix partner labels, and follow the more stringent of the two. DO NOT USE THESE TANK MIXES ON OATS.

Herbicide Tank-mix Partner	Crops Registered	Rate of Herbicide Tank-mix Partner	Adjuvant Rate	Additional Weeds
Achieve™ Liquid	spring wheat, durum wheat, winter wheat, spring barley	0.5 L/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Simplicity™	spring wheat, durum wheat, winter wheat	0.5 L/ha		labelled grassy and broadleaved weeds
Simplicity™ GoDRI™ Herbicide	spring wheat, durum wheat, winter wheat	70 g/ha		labelled grassy and broadleaved weeds
Puma Advance	spring wheat, durum wheat, spring barley	510 mL/ha  1.02 L/ha	None required	green foxtail only  green foxtail, wild oats & barnyard grass

Tank mixes with Achieve Liquid™ may cause temporary injury if applied before the 4-leaf stage, however, yield will not normally be affected.

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than ADAMA Agricultural Solutions Canada Ltd. under the User Requested Minor Use Label Expansion program. For these uses, ADAMA Agricultural Solutions Canada Ltd. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

#### DIRECTIONS FOR USE

**SEEDLING AND ESTABLISHED TALL FESCUE GROWN FOR SEED:** For control of labelled weeds on seedling (4 leaf to flag leaf) or established tall fescue grown for seed. Apply one post-emergent application when weeds are at the 2-4 leaf stage. Ground application only. Do not cut treated fields for hay/forage. Do not graze treated fields.

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Application rates: Apply ESTEEM ALL IN™ at a rate of 2.4 L/ha.

Apply in a minimum spray volume of 100 L water/ha.

**FOR CONTROL OF LABELLED WEEDS IN THE FOLLOWING SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED: Creeping Red Fescue**

Intermediate Wheat Grass  
Crested Wheat Grass  
Slender Wheat Grass  
Meadow Brome Grass  
Smooth Brome Grass  
Timothy

Apply one application per year in a spray volume of 100-200 L/ha to control labelled weeds in seedling (4 leaf to flag leaf) or established forage grasses. Application should be made postemergence when weeds are in the 2-4 leaf stage. Apply in a broadcast spray using a hydraulic boom ground sprayer.

Application rates: ESTEEM ALL IN™ at 2.4 L/ha

Do not cut treated fields for hay/forage. Do not graze treated fields. Do not harvest the treated crop within 60 days of application.

**LABELLED ANNUAL AND PERENNIAL BROADLEAVED WEEDS IN CANARYSEED (*Phalaris canariensis*), INCLUDING ANNUAL CANARYGRASS**

For the control of labelled annual and perennial broadleaved weeds in canaryseed (*Phalaris canariensis*), apply ESTEEM ALL IN™ at a rate of 2.4 L/ha in a minimum of 100 L of water to thoroughly cover the weeds with a spray pressure of 200 to 275 kPa. Apply when weeds are in the seedling stage (2-4 leaf) and when canaryseed (*Phalaris canariensis*), is in the 3-leaf stage up to just before the flag leaf emergence stage. Apply using a ground boom sprayer or aerial sprayer, and apply only one post-emergent application per season. Do NOT apply within 60 days of harvest.

Annual canarygrass seeds may be harvested for human consumption.

Annual canarygrass is NOT to be cut for feed or grazed.

Refer to the main ESTEEM ALL IN™ label for additional details and instructions before using.

**READ THE ROTATIONAL CROPPING RESTRICTIONS ON FULL LABEL BEFORE USING THIS PRODUCT.**

**Improved Pastures containing only forage grasses.**

ESTEEM ALL IN™ can be applied post emergence as a broadcast spray to control weeds in improved pastures that may eventually be rotated into annual cropland. Such pastures may contain non-native, tame or introduced forage grass species.

For pastures grown for seed please refer to the instructions listed in the above label section "Seedlings, established grasses and Tall fescue grown for seed".

**DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.**

Do not spray improved pastures if the injury to existing legume species cannot be tolerated. ESTEEM ALL IN™ will injure or eliminate legume plants (e.g. alfalfa, clover species).

**DIRECTIONS FOR USE**

Apply when weeds are in the 2-4 leaf stage and actively growing. Best results are obtained from

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applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at, and following time of application may reduce weed control. Pastures in poor condition or under stress (e.g., over-grazed, nutrient deficient, etc.) could lead to reduced weed control as a result of limited competition from the pasture grasses. Foliage that is wet at the time of application may decrease control.

**Application rate:** ESTEEM ALL IN™ at 1.8 – 2.4 L/ha

**Weeds controlled:** Refer to the weeds controlled above with ESTEEM ALL IN™ at 1.8 – 2.4 L/ha.

**Restrictions:**

1. Do not permit lactating dairy animals to graze fields within 7 days after application.
2. Do not harvest forage or cut hay within 7 days after application.
3. Withdraw meat animals from treated fields at least 3 days before slaughter.

Refer to the main ESTEEM ALL IN™ label for additional details and instructions before using.

READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING THIS PRODUCT.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, ESTEEM ALL IN™ is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to ESTEEM ALL IN™ and other 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 ESTEEM ALL IN™ or other Group 4 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.



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- 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 Inc. at 1-855-264-6262.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in any way that is inconsistent with the directions on the label.

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