

2025-5631
2026-02-12

<Container label>



GROUP	6	HERBICIDE
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Aderra 240 EC

Herbicide

Emulsifiable Concentrate

**COMMERCIAL - AGRICULTURAL
CONTAINS BROMOXYNIL**

For use in WHEAT (Spring and Winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY GRASS (for seed production), TRITICALE, GARLIC, ONION (dry bulb only), SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE AND GRAIN SORGHUM, FIELD CORN, FORAGE MILLET, GRAIN PEARL MILLET and ZERO TILL

ACTIVE INGREDIENT:

BROMOXYNIL (present as the octanoate ester).....240 g/L

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

WARNING



POISON

EYE IRRITANT

NET CONTENTS: 1 – 1250 L

REGISTRATION NO. 35852 PEST CONTROL PRODUCTS ACT

Avesta CropScience Inc.

Suite 2300, Bentall 5
550 Burrard Street
Vancouver, BC, V6C 0A3

Product Information: 1-720-625-2797

FOR CHEMICAL EMERGENCY:

spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Causes eye irritation, **DO NOT** get in eyes. Avoid contact with skin and clothing. Harmful or fatal if swallowed. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately.

Avoid breathing spray mist. After use wash hands and other exposed skin. Avoid spray drift onto crops other than those recommended.

CROP	POST-APPLICATION ACTIVITY	REI
For all crops, except sweet corn and garlic	DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours
Garlic	Irrigation, handset	2 days
	All other activities	24 hours

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

Ground or Aerial application: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and goggles or face-shield during mixing, loading, clean-up and repair. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during application. Gloves are not required during application within a closed cab/cockpit.

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.

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. Avoid contamination of ponds, streams, rivers and other water sources.

Pre-harvest grazing intervals (wheat, barley, oats, forage sorghum, forage millet and seedling alfalfa): Do not use treated crops for grazing of livestock or green feed until 30 days after application of ADERRA 240 EC unless otherwise stated on the label. Do not cut treated crops for forage until 30 days after application of DERRA 240 EC.

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CAUTION: Do not graze other treated crops or cut for feed unless specified above; sufficient data are not available to support such use.

ENVIRONMENTAL PRECAUTIONS:

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

TOXIC to non-target terrestrial plants. 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.

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not 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 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 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 the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

STORAGE:

Store this product away from food or feed. **Store the container tightly closed away from seeds, fertilizer and plants.** This ADERRA 240 EC formulation will solidify at temperatures below -20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

SHAKE WELL BEFORE USING.

DISPOSAL:

Recyclable containers

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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/territorial 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).

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.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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 cleanup 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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Aderra 240 EC

Herbicide

Emulsifiable Concentrate

**COMMERCIAL - AGRICULTURAL
CONTAINS BROMOXYNIL**

For use in WHEAT (Spring and Winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY GRASS (for seed production), TRITICALE, GARLIC, ONION (dry bulb only), SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE AND GRAIN SORGHUM, FIELD CORN, FORAGE MILLET, GRAIN PEARL MILLET and ZERO TILL

ACTIVE INGREDIENT:

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Product Information: 1-720-625-2797

FOR CHEMICAL EMERGENCY:

spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

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DIRECTIONS FOR USE:

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Timing: For best results spray when weeds are in the seedling stage. Apply in good growing conditions. Application **must** be made before the crop shields the weeds.

Sprayer: Wash the tank and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume of water per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of weeds. For ground application, spray at 5–10 km/h. Ensure that all tips are in good condition and spraying the same volume.

Mixing: Half fill the tank with clean water. Add the required amount of ADERRA 240 EC and agitate thoroughly. Fill the tank and agitate again before 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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

AERIAL APPLICATION (wheat and barley only):

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) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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 rate 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.

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.

This product may be tank mixed 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 Avesta CropScience Inc. at 1-720-625-2797 for information before applying any tank mix that is not specifically recommended on this label.

Product Specific Precautions: Read and understand the entire label before opening this product. If you have questions, call Avesta CropScience Inc. representatives at 1-720-625-2797 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: ADERRA 240 EC plus either MCPA or 2,4-D must be applied in volume rates of not *less than* 20 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, green or pale smartweed, hemp-nettle, redroot pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

Spray Buffer Zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

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 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	All crops		1	1	1	1	1
Aerial	Barley	Fixed wing	20	5	1	1	55
	and wheat	Rotary	20	3	1	1	45

		wing					
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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.

HERBICIDE RESISTANCE MANAGEMENT:

For resistance management, ADERRA 240 EC is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to ADERRA 240 EC and other Group 6 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 ADERRA 240 EC or other Group 6 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. 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 Avesta CropScience Inc. representatives at 1-720-625-2797.

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Avoid breathing spray mist. After use wash hands and other exposed skin. Avoid spray drift onto crops other than those recommended.

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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.

Pre-harvest grazing intervals:

- For wheat, barley, oats, forage sorghum, forage millet and seedling alfalfa: **DO NOT** use treated crops for grazing of livestock or green feed until 30 days after application of ADERRA 240 EC unless otherwise stated on the label. **DO NOT** cut treated crops for forage until 30 days after application of ADERRA 240 EC.
- For other labelled crops, **DO NOT** graze the treated crops or cut for feed.

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ENVIRONMENTAL PRECAUTIONS:

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FIRST AID:

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

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

TOXICOLOGICAL INFORMATION:

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

STORAGE:

Store this product away from food or feed. Store the container tightly closed away from seeds, fertilizer and plants.

This ADERRA 240 EC formulation will solidify at temperatures below -20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

SHAKE WELL BEFORE USING.

DISPOSAL:

Recyclable 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 cleanup 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.

WHEAT (spring, durum and winter - not underseeded to legumes)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa.	Spring wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be treated from the 2- to 4- leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1 - 8.3 ha). If weeds are beyond the leaf stages indicated on under adverse growing conditions, use of the higher recommended rate will improve control.
ADERRA 240 EC + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275	Spring wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be	Spring wheat: ADERRA 240 EC at 1.2 L/ha tank mixed with 275–550 g active ingredient MCPA per hectare where indicated.

	kPa.	treated from the 2- to 4- leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring.	Winter wheat: ADERRA 240 EC at 1.2 L/ha can be tank mixed with 275 g active ingredient MCPA per hectare. Refer to table at end of booklet for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add ADERRA 240 EC.
ADERRA 240 EC + 2,4-D	Apply in 100 L water per hectare at a pressure of 275 kPa.	Spring and winter wheat may be treated from the 4-leaf until the early flag leaf stage. Application before the 4-leaf stage may injure the crop.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275 - 420 g active ingredient 2,4-D per hectare. Refer to the table at end of booklet for correct volume of 2,4-D. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha) Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add ADERRA 240 EC. Refer to the 2,4-D label for precautions and limitations.

WEEDS CONTROLLED

ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/ canola**, hemp-nettle***, night flowering catchfly, Canada thistle****, perennial sow-thistle****, ball mustard. Seedlings up to 8-leaf stage:

	Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** For high infestations tank mix 550 g active ingredient MCPA per ha.</i> <i>*** Tank mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i> <i>**** Top growth control.</i>
ADERRA 240 EC + 2,4-D	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, night flowering catchfly, flaxweed*, shepherd's purse, volunteer sunflower, ball mustard. Seedlings up to 8-leaf stage: Stinkweed*, wild mustard. <i>* The higher rate of 2,4-D is recommended for larger overwintered weeds (fall rosettes).</i>

BARLEY (not underseeded to legumes)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa.	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.2–1.4 L/ha. (The 9.7 L container of ADERRA 240 EC treats 7.1–8.3 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
ADERRA 240 EC + MCPA	Apply in 50 – 100 L water per hectare at a pressure of 275 kPa.	The crop may be treated from the 2-leaf until the early flag leaf stage.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275–550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add ADERRA 240 EC.
ADERRA 240 EC + 2,4-D	Apply in 100 L water per hectare at a pressure of 275 kPa.	The crop may be treated from the 4-leaf until the early flag leaf stage. Application before the 4-leaf stage may result in injury to the crop.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275–420 g active ingredient 2,4-D per hectare. Refer to table at end of booklet for correct volume of 2,4-D. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add

			ADERRA 240 EC. Refer to the 2,4-D label for precautions and limitations.
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WEEDS CONTROLLED			
ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.		
	Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.		
	<i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds:		
	Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/canola**, hemp-nettle***, night flowering catchfly, Canada thistle****, perennial sow-thistle****, ball mustard.		
	Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** For high infestations tank mix 550 g active ingredient MCPA per ha.</i> <i>*** Tank mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i> <i>**** Top growth control.</i>		
ADERRA 240 EC + 2,4-D	As listed for ADERRA 240 EC used alone plus these additional weeds:		
	Seedlings up to 4-leaf stage: Redroot pigweed, night flowering catchfly, flixweed*, shepherd's purse, volunteer sunflower, ball mustard.		
	Seedlings up to 8-leaf stage: Stinkweed*, wild mustard. <i>* The higher rate of 2,4-D is recommended for larger over wintered weeds (fall rosettes).</i>		

OATS (not underseeded to legumes)

	Spray volume and pressure	Timing	Application rate
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ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.2–1.4 L/ha. (This 9.7 L container treats 7.1–8.3 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
ADERRA 240 EC + MCPA	Apply in 50–100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	The crop may be treated from the 2-leaf until the early flag leaf stage.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275–550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add ADERRA 240 EC.
WEEDS CONTROLLED			
ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/canola**, hemp-nettle***, night flowering catchfly, Canada thistle****, perennial sow-thistle****, ball mustard. Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** For high infestations tank mix 550 g active ingredient MCPA per ha.</i> <i>*** Tank mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i> <i>**** Top growth control.</i>		

CORN (FIELD AND SWEET)

2025-5631
2026-02-12

DO NOT enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) specified in the following table:

CROP	POST-APPLICATION ACTIVITY	REI
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR	Corn may be treated with a broadcast post-emergence application at the recommended rate from the 4-leaf stage onward. To ensure adequate coverage of weeds, drop pipes should be used when corn is beyond the 8-leaf stage or for a second application for later germinating weeds such as cocklebur and velvetleaf. Minimum re-treatment interval for the second application is 21 days. The pre-harvest interval (PHI) is 20 days.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1 – 8.3 ha). Use of the higher recommended rate will improve control when heavy infestations of weeds are present. ADERRA 240 EC is a contact herbicide thus good coverage of the weeds is essential. Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT.
ADERRA 240 EC + ATRAZINE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Corn should be treated from the 4- to 8-leaf stage. Refer to the ATRAZINE label for limitations on grassy weeds.	ADERRA 240 EC at 1.2 L/ha tank mixed with ATRAZINE at 1.1–1.5 kg active ingredient per hectare. Add ATRAZINE to the spray tank first, agitate well, and then add ADERRA 240 EC. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL. Refer to the ATRAZINE label for instructions, precautions and

			limitations (especially on crop restrictions the following year).
ADERRA 240 EC + LOW RATE ATRAZINE	Apply in 200–300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Corn may be treated with a broadcast post-emergence application at the recommended rate from the 4-leaf stage onward. To ensure adequate coverage of weeds, drop pipes should be used when corn is beyond the 8-leaf stage or for a second application for later germinating weeds such as cocklebur and velvetleaf. Minimum re-treatment interval for the second application is 21 days. The pre-harvest interval (PHI) is 20 days.	ADERRA 240 EC at 1.2–1.4 L/ha tank- mixed with ATRAZINE at 0.5 kg active ingredient per hectare. Add ATRAZINE to the spray tank first, agitate well and then add ADERRA 240 EC. (The 9.7 L container of ADERRA 240 EC treats 7.1–8.3 ha). Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL.
WEEDS CONTROLLED			
ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		
ADERRA 240 EC + ATRAZINE	As listed for ADERRA 240 EC used alone plus weeds as indicated on the ATRAZINE label.		
ADERRA 240 EC + LOW RATE ATRAZINE	As listed for ADERRA 240 EC used alone plus : Seedlings up to the 6-leaf stage: Redroot pigweed (triazine susceptible), velvetleaf*. Seedlings up to the 8-leaf stage: Common ragweed. <i>* Spray before weeds reach 10 cm in height.</i>		

FIELD CORN (do not use on sweet corn)

ADERRA 240 EC + BANVEL® HERBICIDE, BANVEL® II HERBICIDE OR ORACLE® DICAMBA AGRICULTURAL HERBICIDE		
Spray volume and pressure	Timing	Application rate
Apply in 200–300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR	Field corn should be treated from the 4- to 6-leaf stage as an overall broadcast treatment. Drop pipes should be used when applying to corn over the 6-leaf stage and up to 50 cm; direct drop pipe nozzles on the weeds beneath the corn leaves. Apply no later than 2 weeks prior to tassel emergence and do not apply to corn over 50 cm in height.	ADERRA 240 EC at 1.2 L/ha tank- mixed with Banvel® Herbicide, Banvel® II Herbicide or Oracle® Dicamba Agricultural Herbicide at 290 mL/ha. Add ADERRA 240 EC to the spray tank first, agitate well and then add Banvel® Herbicide, Banvel® II Herbicide or Oracle® Dicamba Agricultural Herbicide. Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Refer to the Banvel® Herbicide, Banvel® II Herbicide or Oracle® Dicamba Agricultural Herbicide labels for instructions, precautions and limitations. DO NOT ADD OIL OR SURFACTANT.
WEEDS CONTROLLED		
As listed for ADERRA 240 EC used alone plus: Seedlings up to the 6-leaf stage: Redroot pigweed and common ragweed including triazine resistant strains.		

ADERRA 240 EC + ULTIM HERBICIDE + NON-IONIC SURFACTANT: EASTERN CANADA AND MANITOBA
DIRECTIONS FOR USE: FIELD CORN ONLY

ADERRA 240 EC may be tank mixed with Ultim Herbicide to control annual grasses, quackgrass and many broadleaf weeds. Tank mix 33.3 g/ha of Ultim Herbicide and 1.2 L/ha of ADERRA 240 EC with a non-ionic surfactant at 0.2% v/v (2 L/1000 L).

Refer to the Ultim Herbicide label for additional information on Environmental Conditions and Biological Activity.

MIXING: Fill the tank about ¼ full with clean water. Turn on full agitation. Add the required amount of Ultim Herbicide and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of ADERRA 240 EC, followed by a recommended non-ionic surfactant while agitating. Fill the remainder of the spray tank. Refer to the Ultim Herbicide label for further limitations and precautions on mixing instructions and sprayer cleanup.

FIELD CORN ONLY — EASTERN CANADA + MANITOBA

ADERRA 240 EC + ULTIM HERBICIDE + NON-IONIC SURFACTANT		
Spray volume and pressure	Timing	Application rate
Apply in 200 – 300 L water per hectare at a pressure of 275 kPa by ground only. DO NOT APPLY BY AIR.	Corn should be treated up to the 6-leaf stage (up to 4 visible collars or 30 cm in height - leaf extended). Refer to the Ultim Herbicide label for further limitations and precautions.	ADERRA 240 EC at 1.2 L/ha tank mixed with Ultim Herbicide (see the Ultim Herbicide label for rate) and a recommended non-ionic surfactant, either Citowett® Plus, Agral® 90 [◇] or Ag-Surf® ^{◇◇} at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED		
As listed for ADERRA 240 EC used alone plus these additional weeds:		
Seedlings up to the 6-leaf stage: Barnyard grass, proso millet**, yellow foxtail (suppression only), green foxtail, fall panicum, old witchgrass and redroot pigweed* (2- to 6-leaf stage). 3- to 6-leaf stage: Quackgrass** <i>* Including triazine resistant species.</i> <i>** Refer to the Ultim Herbicide label for specific weed control recommendations.</i>		

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◇◇ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

ADERRA 240 EC + ACCENT HERBICIDE + NON-IONIC SURFACTANT:

FIELD CORN ONLY — PRAIRIE PROVINCES

NOTICE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Avesta CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Avesta CropScience Inc. 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.

ADERRA 240 EC + ACCENT HERBICIDE + NON-IONIC SURFACTANT

Spray volume and pressure	Timing	Application rate
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Apply in a minimum of 100 L water per hectare at a pressure of 275 kPa by ground only. DO NOT APPLY BY AIR.	Apply as a single post-emergent spray. Apply post-emergence to corn when at the 4- to 8-leaf stage (2–6 visible collars). Do not apply prior to the 4-leaf (2 visible collars) or after the 8-leaf (6 visible collars) stage of corn. Observe a PHI of 30 days. Refer to the Accent Herbicide label for further limitations and precautions.	ADERRA 240 EC at 1.2 L/ha tank mixed with Accent Herbicide at 33.4 g/ha and a recommended non-ionic surfactant, either Citowett [®] Plus, Agral [®] 90 [◇] or Ag-Surf ^{®◇◇} at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED		
As listed for ADERRA 240 EC used alone plus these additional weeds:		
Seedlings in the 1- to 6-leaf stage (up to early tillering, 2 two-leaf tillers): Yellow foxtail*, barnyard grass fall panicum, green foxtail, old witchgrass.		
Plants in the 3- to 6-leaf stage (10–20 cm in height—leaf extended): Quackgrass.		
* <i>Suppression only</i>		

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◇◇ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

FALL RYE (not underseeded to legumes)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1 - 8.3 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
ADERRA 240 EC + MCPA	Apply in 50–100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275 g active ingredient MCPA per hectare where indicated. Refer to the mixing tables at end of book for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank

			first, agitate, then add ADERRA 240 EC. Refer to the MCPA label for precautions and limitations.
WEEDS CONTROLLED			
ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/canola**, night flowering catchfly, Canada thistle**, perennial sow-thistle**, ball mustard. Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** Top growth control only.</i>		

FLAX (including low linolenic acid varieties)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply ADERRA 240 EC when flax is 5–10 cm high. Note: Spraying in the evening may reduce risk of flax injury. Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. Do not spray flax by aircraft. Observe a minimum interval to harvest of 60 days after application of ADERRA 240 EC.	1.2 L/ha.

		Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2–3 days. Avoid using ADERRA 240 EC when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.	
ADERRA 240 EC + MCPA	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply ADERRA 240 EC when flax is 5–10 cm high. Note: Spraying in the evening may reduce risk of flax injury. Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. Do not spray flax by aircraft. Observe a minimum interval to harvest of 60 days after application of ADERRA 240 EC. Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2–3 days. Avoid using ADERRA 240 EC when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.	ADERRA 240 EC at 1.2 L/ha tank mixed with MCPA at 275 g a.i./ha. Follow all precautions, limitations and timing recommendations on MCPA labels. The amine or ester formulations of MCPA can be used in tank mixtures.

WEEDS CONTROLLED

ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, triazine-resistant pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>
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WEEDS CONTROLLED

ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/canola**, hemp-nettle***, night flowering catchfly, Canada thistle****, perennial sow-thistle****, ball mustard. Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** For high infestations tank mix 550 g active ingredient MCPA per ha.</i> <i>*** Tank mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i> <i>**** Top growth control only.</i>
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CANARY SEED (for seed production)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	The crop may be treated from the 3- to 5-leaf stage.	1.2 L/ha. (The 9.7 L container treats 8.3 ha).
ADERRA 240 EC + MCPA	Apply in 50–100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	The crop may be treated from the 3- to 5-leaf stage.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275 g active ingredient MCPA per hectare. Refer to the table at end of book for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add ADERRA 240 EC. Refer to the MCPA label for precautions and limitations.

WEEDS CONTROLLED

ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.
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	<i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage: Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer sunflower, volunteer rapeseed/canola**, night flowering catchfly, Canada thistle**, perennial sow-thistle**, ball mustard. Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** Top growth control only.</i>

TRITICALE

Spray volume and pressure	Timing	Application rate
Apply in 100 L water/ha at a pressure of 275 kPa. DO NOT APPLY BY AIR.	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1–8.3 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED		
Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		

GARLIC

DO NOT enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) specified in the following table:

CROP	POST-APPLICATION ACTIVITY	REI
Garlic	Irrigation, handset	2 days
	All other activities	24 hours

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Spray volume and pressure	Timing	Application rate
Apply in 200–300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply early post emergent to weeds by ground application only. One application per year. Observe a PHI of 58 days.	1.2 L/ha.
WEEDS CONTROLLED		
Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.		
Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.		
<i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i>		
<i>** Spray before plants are 5 cm high.</i>		
<i>*** Spray before plants are 8 cm high.</i>		

ONION (Dry Bulb Only)

NOTICE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Avesta CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Avesta CropScience Inc. 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.		
Spray Volume and Pressure	Timing	Application Rate
Apply in 200 L water per hectare at a pressure of 170 kPa.	Make two applications per season, at an interval of 10 to 18 days. The first application should be made when onions are at the 2- to 3-leaf stage, and the second application made when onions are at the 4- to 5-leaf stage. DO NOT harvest within 75 days of application.	Apply ADERRA 240 EC twice per season, each time at a rate of 0.6 L/ha. Application Precaution: ADERRA 240 EC may cause severe leaf burn in onions if weather conditions have not been conducive to the development of the outer waxy layer of the onion leaf.
WEEDS CONTROLLED		
Seedlings up to 4-leaf stage: Redroot pigweed, common groundsel.		

SEEDLING ALFALFA - PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY

Spray volume and pressure	Timing	Application rate
Apply in 100 L water/ha at a pressure of 275 kPa. Ground application only. DO NOT APPLY BY AIR.	Seedling alfalfa may be treated at the 2 to 6 trifoliate leaf stage.	1.2 L/ha. (The 9.7 L container treats 8.3 ha). Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Do not apply if crop is under stress. Do not apply to alfalfa seedlings in the unifoliate or 1st trifoliate leaf stage. Avoid overlapping as severe crop injury may occur.

WEEDS CONTROLLED

Seedlings up to 4-leaf stage:

Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.

Seedlings up to 8-leaf stage:

Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.

** In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.*

*** Spray before plants are 5 cm high.*

**** Spray before plants are 8 cm high.*

ESTABLISHED ALFALFA (for seed production only)

PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY

Spray volume and pressure	Timing	Application rate
Apply in 100 L water/ha at a pressure of 275 kPa. Ground application only. DO NOT APPLY BY AIR.	Established alfalfa may be treated until alfalfa is 25 cm tall. Maximum of 2 applications per year. Minimum re-treatment interval for the second application is 21 days.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1 – 8.3 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control. Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Crop will recover and yield will not be affected.

WEEDS CONTROLLED

Seedlings up to 4-leaf stage:

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Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.

Seedlings up to 8-leaf stage:

Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.

** In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.*

*** Spray before plants are 5 cm high.*

**** Spray before plants are 8 cm high.*

MINIMUM OR ZERO TILL

ADERRA 240 EC + GLYPHOSATE (PRESENT AS POTASSIUM, ISOPROPYLAMINE, DIMETHYLAMINE OR DIAMMONIUM SALT)

Spray volume and pressure	Timing	Application rate
Apply in 100 L of clean water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	This recommendation applies only to minimum or zero till situations before emergence of the crop. Application can be made just prior to or immediately after seeding. Under no circumstances should application be made after crop emergence. Weeds in the seedling stage are most susceptible. This treatment should only be used in minimum or zero-tillage cropping systems in wheat, barley, and oats.	ADERRA 240 EC at 1.2 – 1.46 L/ha tank mixed with GLYPHOSATE at 396 g a.e./ha. ADERRA 240 EC should be added to the spray tank first, with agitation then GLYPHOSATE. Refer to the GLYPHOSATE label for the appropriate glyphosate use rate, precautions, mixing instructions and other use instructions.

WEEDS CONTROLLED

Seedlings up to 4-leaf stage:

Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.

Seedlings up to 8-leaf stage:

Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.

Grassy weeds up to 15 cm:

Wild oats, volunteer cereals, green foxtail.

** In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*** Spray before plants are 5 cm high.*

**** Spray before plants are 8 cm high.*

SEEDLING GRASSES (not underseeded to legumes)

	Spray volume and pressure	Timing	Application rate
ADERRA 240 EC used alone	Apply in 150 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Seedling grasses may be treated from the 2- to 4-leaf stage.	1.2–1.4 L/ha. (The 9.7 L container treats 7.1 - 8.3 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control. Note: Grasses grown for seed production in the year of establishment only. Crops: Brome grass, crested wheat grass, intermediate wheat grass, slender wheat grass, tall wheat grass, Russian wild rye, timothy, orchard grass, creeping red fescue, meadow fescue, reed canary grass.
ADERRA 240 EC + MCPA	Apply in 150 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Seedling grasses may be treated from the 2- to 4-leaf stage.	ADERRA 240 EC at 1.2 L/ha tank mixed with 275 g active ingredient MCPA per hectare. Refer to the table at end of book for correct volume of MCPA. (The 9.7 L container of ADERRA 240 EC treats 8.3 ha). Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add ADERRA 240 EC. Refer to the MCPA label for precautions and limitations.
WEEDS CONTROLLED			
ADERRA 240 EC used alone	Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		
ADERRA 240 EC + MCPA	As listed for ADERRA 240 EC used alone plus these additional weeds: Seedlings up to 4-leaf stage:		

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	Redroot pigweed, flixweed, shepherd's purse, scentless chamomile*, volunteer rapeseed/canola**, volunteer sunflower, night flowering catchfly, Canada thistle**, perennial sow-thistle**, ball mustard. Seedlings up to 8-leaf stage: Stinkweed, common ragweed, wild mustard, wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** Top growth control only.</i>
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FORAGE SORGHUM AND FORAGE MILLET

Spray volume and pressure	Timing	Application rate
Apply in 200–300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply when the crop is at or beyond the 4-leaf stage and less than 20 cm in height by ground application only. One application per year. Observe a PHI of 30 days.	1.2 L/ha.
WEEDS CONTROLLED		
Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade. Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters. <i>* In normal conditions, will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>		

GRAIN SORGHUM and GRAIN PEARL MILLET

NOTICE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Avesta CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Avesta CropScience Inc. 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.		
Spray Volume and Pressure	Timing	Application Rate

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Apply in 200-300 L water/ha at a pressure of 275 kPa.	Apply when the crop is at or beyond the 4-leaf stage and less than 20 cm in height by ground application only. One application per year. Observe a PHI of 100 days.	1.2 L/ha.
WEEDS CONTROLLED		
Seedlings up to 4-leaf stage: Green smartweed, pale smartweed, lady's-thumb, wild mustard*, kochia**, cow cockle*, Russian thistle**, stinkweed*, cocklebur, common ragweed, pigweed*, velvetleaf***, bluebur, American nightshade.		
Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, common buckwheat, common groundsel, lamb's-quarters.		
<i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i>		
<i>** Spray before plants are 5 cm high.</i>		
<i>*** Spray before plants are 8 cm high.</i>		

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MIXING TABLE:

For calculating the amount of product to add to the spray tank when applying 100 L spray solution per hectare.

		ADERRA 240 EC		MCPA AMINE 500 or MCPA ESTER 500		MCPA SODIUM SALT 300	
Rate active per hectare Rate product per hectare		280 g 1.2 L	340 g 1.4 L	275 g 550 mL	550 g 1.1 L	275 g 920 mL	550 g 1.83 L
Size of spray tank							
Gallons	Litres	Litres of chemical to add to spray tank (approx.)					
500	227	27.2	31.8	12.5	25.0	20.9	41.6
400	3	21.8	25.5	10.0	20.0	16.7	33.3
350	181	19.1	22.3	8.75	17.5	14.6	29.2
300	8	16.3	19.0	7.5	15.0	12.5	25.0
250	159	13.6	15.9	6.25	12.5	10.5	20.8
200	1	10.9	12.7	5.0	10.0	8.4	16.6
100	136	5.4	6.3	2.5	5.0	4.2	8.4
50	3	2.7	3.2	1.25	2.5	2.1	4.2
22	113	1.2	1.4	550	1.1	920 mL	1.8
10	6	540	630	mL	500	420 mL	820 mL
	909	mL	mL	250	mL		
	455			mL			
	227						
	100						
	45						

		ADERRA 240 EC		2,4-D AMINE 500	2,4-D LV-600	2,4-D LV-700
				Herbicide	Herbicide	Herbicide
Rate active per		280 g	340 g	275 g	275 g	275 g
hectare Rate product		1.2 L	1.4 L	550	458	393
per hectare				mL	mL	mL
Size of spray tank		Litres of chemical to add to the spray tank				
Gallons	Litres	(approx.)				
500	2273	27.2	31.8	12.5	10.4	8.9
400	1818	21.8	25.5	10.0	8.3	7.1
350	1591	19.1	22.3	8.75	7.3	6.25
300	1363	16.3	19.0	7.5	6.25	5.4
250	1136	13.6	15.9	6.25	5.2	4.5
200	909	10.9	12.7	5.0	4.2	3.6
100	455	5.4	6.3	2.5	2.1	1.8
50	227	2.7	3.2	1.25	1.0	890 mL
22	100	1.2	1.4	550 mL	458 mL	390 mL
10	45	540	630	250 mL	210 mL	180 mL
		mL	mL			