



PARDNER 225 EC Herbicide

GROUP	6	HERBICIDE
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CONTAINS BROMOXYNIL

EMULSION
FOR USE IN

WHEAT (Spring & Winter), BARLEY, OATS,
CORN, FALL RYE, CANARY SEED (for seed production),
TRITICALE, SEEDLING ALFALFA,
ESTABLISHED ALFALFA (for seed production only),
SEEDLING GRASSES and ZERO TILL

AGRICULTURAL

GUARANTEE: BROMOXYNIL (present as an ester) 225 g/L

REGISTRATION NO. 14878
PEST CONTROL PRODUCTS ACT

WARNING



POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

Product Information: 1-888-283-6847

Bayer CropScience Inc.
Suite 100, 3131 – 114th Ave. SE
Calgary, AB T2Z 3X2
Telephone: 1-888-283-6847

NET CONTENTS: 4 L – 200 L

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY RESPONSE
NUMBER COLLECT 1-800-334-7577 (24 HOURS A DAY).

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes and clothing.

Wash concentrate from skin or eyes immediately.

Avoid breathing spray mist.

After use wash hands and other exposed skin.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant apron during mixing/loading activities. For aerial application, mixers/loaders must wear coveralls over normal working clothes. Wear chemical resistant nitrile gloves (e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15) which are in good condition, when mixing/loading, spraying, and during clean up and repair. Aerial applicators and applicators using a closed cab are not required to wear chemical resistant gloves.

DO NOT apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application.

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.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

Avoid spray drift onto crops other than those recommended.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

ENVIRONMENTAL HAZARDS:

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

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms.

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

Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning equipment.

FIRST AID:

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

Ingestion: 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.

Eye Contact: 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.

Skin or Clothing Contact: 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.

Inhalation: 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.

TOXICOLOGICAL INFORMATION:

Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577. This product contains an aromatic hydrocarbon solvent. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE CONDITIONS:

This PARDNER 225 EC Herbicide 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.** Store the container tightly closed and away from seeds, fertilizer, plants and foodstuffs.

RECYCLABLE CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

RETURNABLE CONTAINER DISPOSAL:

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

REFILLABLE CONTAINER DISPOSAL:

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not 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 regulatory agency. Contact the manufacturer and the provincial 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. The user assumes the risk to persons or property that arises from any such use of this product.

PARDNER

225 EC Herbicide



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EMULSION
FOR USE IN

WHEAT (Spring & Winter), BARLEY, OATS,
CORN, FALL RYE, CANARY SEED (for seed production),
TRITICALE, SEEDLING ALFALFA,
ESTABLISHED ALFALFA (for seed production only),
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PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes and clothing.

Wash concentrate from skin or eyes immediately.

Avoid breathing spray mist.

After use wash hands and other exposed skin.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant apron during mixing/loading activities. For aerial application, mixers/loaders must wear coveralls over normal working clothes. Wear chemical resistant nitrile gloves (e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15) which are in good condition, when mixing/loading, spraying, and during clean up and repair. Aerial applicators and applicators using a closed cab are not required to wear chemical resistant gloves.

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Avoid spray drift onto crops other than those recommended.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

PRE-HARVEST GRAZING INTERVALS: (Wheat, Barley, Oats and Seedling Alfalfa) - Do not use treated crops for grazing of livestock or green feed until 30 days after application of PARDNER 225 EC Herbicide. Do not cut treated crops for forage until 30 days after application of PARDNER 225 EC Herbicide.

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

ENVIRONMENTAL HAZARDS:

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Inhalation: 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.

TOXICOLOGICAL INFORMATION:

Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577. This product contains an aromatic hydrocarbon solvent. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE CONDITIONS:

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NOTICE TO USER:

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DIRECTIONS FOR USE:

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.

FIELD SPRAYER APPLICATION:

- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.
- Boom height must be 60 cm or less above the crop or ground.
- Spray at 5 - 10 km/h.
- Ensure that all tips are in good condition and spraying the same volume.

AERIAL APPLICATION (wheat and barley only):

- 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.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aerial 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.

- Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.
- Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist).
- DO NOT apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.
- 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) medium classification.
- To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wingspan or rotorspan.

Aerial Application Operator Precautions

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilot have communication capabilities at each treatment site at the time of application.
- The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions:

- Weeds must be treated at the recommended growth stages while actively growing. Weed stage should be checked prior to spraying.
- PARDNER 225 EC Herbicide 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, smartweed, hempnettle, pigweed or Canada thistle a volume rate of 40 L/ha is recommended.
- The recommended rates of PARDNER 225 EC Herbicide and the Phenoxy herbicides must *not* be reduced.
- Flat-fan or hollow cone nozzles are recommended.
- Nozzles should be positioned to compensate for prop-wash and wing-tip vortex effects. Nozzles should not be placed within 1 m of wing tips.
- Orient nozzles (measured from direction of flight) to achieve desired minimum droplet density with maximum coverage.

VOLUME RATE	NOZZLE TYPE	NOZZLE ORIENTATION
20 L/ha	Flat Fan	90°
	Hollow Cone	135°
30 L/ha	Flat Fan	90° - 135°
	Hollow Cone	135°
40 L/ha	Flat Fan	135°
	Hollow Cone	135° - 180°

- Efficient track-marking is essential ("Automatic Flagmen") markers should only be used as a back-up system). Avoid spraying in temperatures greater than 25°C.

MIXING: Half fill the tank with clean water. Add the required amount of PARDNER 225 EC Herbicide and agitate thoroughly. Fill the tank and agitate again before use.

BUFFER ZONES: Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench and soil incorporation.

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

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine / Marine Habitats of Depths:		Terrestrial Habitat	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		
Field Sprayer*	All crops	1	1	1	1	1	
Aerial	Barley and wheat	Fixed wing	20	5	1	1	55
		Rotary wing	20	3	1	1	45

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

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

HERBICIDE RESISTANCE MANAGEMENT: For resistance management, PARDNER 225 EC Herbicide is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to PARDNER 225 EC Herbicide 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 PARDNER 225 EC Herbicide 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 your local Bayer representative, or call Bayer CropScience Inc. toll-free at 1-888-283-6847.

WHEAT (Spring & Winter)
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa.
TIMING	<p>Spring wheat may be treated from the 2-leaf until the early flag leaf stage.</p> <p>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.</p>	<p>Spring wheat may be treated from the 2-leaf until the early flag leaf stage.</p> <p>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.</p>
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are beyond the leaf stages indicated or under adverse growing conditions use of the higher recommended rate will improve control.	<p>Spring wheat - PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated.</p> <p>Winter wheat - PARDNER 225 EC Herbicide at 1.25 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.</p> <p>Note: MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide.</p>

WHEAT (Spring & Winter)
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE + 2,4-D	PARDNER 225 EC HERBICIDE + HOE-GRASS* (SPRING WHEAT ONLY)
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa	Apply in 110 L water per hectare at a pressure of 275 kPa
TIMING	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.	Spring wheat may be treated from the 2-leaf until the early flag leaf stage.
APPLICATION RATE	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to the table at end of booklet for correct volume of 2,4-D. 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 PARDNER 225 EC Herbicide. Refer to the 2,4-D label for precautions and limitations.	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 2.8 L/ha Hoe-Grass (284 g/L). Note: Add Hoe-Grass to the spray tank first, agitate, and then add PARDNER 225 EC Herbicide.

WHEAT (Spring & Winter)
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE + AVENGE 200C (SPRING WHEAT ONLY)	PARDNER 225 EC HERBICIDE + MCPA + AVENGE 200-C (SPRING WHEAT ONLY)
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa.	Apply in 100 L water per hectare at a pressure of 275 kPa.
TIMING	Spring wheat may be treated from the 2-leaf until the 6-leaf stage.	Spring wheat may be treated from the 2-leaf until the 6 leaf stage.
APPLICATION RATE	PARDNER 225 EC Herbicide at 1.25 - 1.50 L/ha tank-mixed with Avenge 200-C at 3.5-4.25L/ha. Note: Add PARDNER 225 EC Herbicide to the spray tank first, agitate and then add Avenge 200-C. Avenge 200-C can only be applied to certain varieties of wheat. Refer to the Avenge 200-C label.	PARDNER 225 EC Herbicide at 1.25 L/ha plus 275-550 g active ingredient MCPA ester per hectare tank-mixed with Avenge 200-C at 3.5-4.25 L/ha. Note: Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide, agitate, and finally add Avenge 200-C.

SPRING AND WINTER WHEAT - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p>PARDNER 225 EC HERBICIDE USED ALONE</p>	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
<p>PARDNER 225 EC HERBICIDE + MCPA</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds.</p> <p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, VOLUNTEER RAPESEED/CANOLA**, HEMPNETTLE***, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE****, PERENNIAL SOW-THISTLE****, BALL MUSTARD</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p>*** <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></p> <p>**** <i>Top growth control.</i></p>

SPRING AND WINTER WHEAT - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE + 2,4-D	As listed for PARDNER 225 EC Herbicide 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>
PARDNER 225 EC HERBICIDE + HOE-GRASS (Spring Wheat Only)	As listed for PARDNER 225 EC Herbicide used alone plus wild oats, green and yellow foxtail, Persian darnel and volunteer corn, (refer to Hoe-Grass label for proper timing on grassy weeds). Note: Wild mustard must be sprayed before the 4 leaf stage. Plants sprayed beyond this stage are unlikely to be controlled.
PARDNER 225 EC HERBICIDE + AVENGE 200-C (Spring Wheat Only)	As listed for PARDNER 225 EC Herbicide used alone plus wild oats. For best control of all broadleaved weeds, a three-way tank-mix with MCPA ester is preferred, particularly where mustards occur. Note: Wild oats must be in the 3 to 5 leaf stage and broadleaf weeds in the seedling stage as indicated.
PARDNER 225 EC HERBICIDE + MCPA + AVENGE 200-C (Spring Wheat Only)	As listed for PARDNER 225 EC Herbicide used alone or in combination with MCPA plus wild oats. For best control of all broadleaved weeds a three-way tank-mix with MCPA ester is preferred, particularly where mustards occur. For more convenience, BUCTRIL M can be used instead of PARDNER 225 EC Herbicide plus MCPA ester for tank-mixing with Avenge. Note: Wild oats must be in the 3 to 5 leaf stage and broadleaf weeds in the seedling stage as indicated.

BARLEY
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa.	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa.
TIMING	The crop may be treated from the 2-leaf until the early flag leaf stage.	The crop may be treated from the 2-leaf until the early flag leaf stage.
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.	PARDNER 225 EC Herbicide at 1.25 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. Note: MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide.

BARLEY
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE + 2,4-D	PARDNER 225 EC HERBICIDE + HOE-GRASS*
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa.	Apply in 110 L water per hectare at a pressure of 275 kPa.
TIMING	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.	Barley must be sprayed in the 1-4 leaf stage and prior to tillering. Crop injury may occur if applied after tillering.
APPLICATION RATE	<p>PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to table at end of booklet for correct volume of 2,4-D.</p> <p>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 PARDNER 225 EC Herbicide. Refer to the 2,4-D label for precautions and limitations.</p>	<p>PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 2.8 L/ha Hoe-Grass (284 g/L).</p> <p>Note: Add Hoe-Grass to the spray tank first, agitate, and then add PARDNER 225 EC Herbicide.</p>

BARLEY
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE + AVENGE 200-C	PARDNER 225 EC HERBICIDE + MCPA + AVENGE 200-C
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa.	Apply in 100 L water per hectare at a pressure of 275 kPa.
TIMING	Barley may be treated from the 2 to 6 leaf stage.	Barley may be treated from the 2 to 6 leaf stage.
APPLICATION RATE	<p>PARDNER 225 EC Herbicide at 1.25 - 1.50 L/ha tank-mixed with Avenge 200-C at 3.5-4.25 L/ha.</p> <p>Note: Add PARDNER 225 EC Herbicide to the spray tank first, agitate and then add Avenge 200-C.</p>	<p>PARDNER 225 EC Herbicide at 1.25 L/ha plus 275-550 g active ingredient MCPA ester per hectare tank-mixed with Avenge 200-C at 3.5-4.25 L/ha.</p> <p>Note: MCPA should be added to the spray tank first, agitate then add PARDNER 225 EC Herbicide, agitate then add Avenge 200-C.</p>

BARLEY - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p>PARDNER 225 EC HERBICIDE USED ALONE</p>	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
<p>PARDNER 225 EC HERBICIDE + MCPA</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds.</p> <p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, VOLUNTEER RAPESEED/CANOLA**, HEMPNETTLE***, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE****, PERENNIAL SOW-THISTLE****, BALL MUSTARD</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p>*** <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></p> <p>**** <i>Top growth control.</i></p>

BARLEY - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE + 2,4-D	As listed for PARDNER 225 EC Herbicide 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>
PARDNER 225 EC HERBICIDE + HOE-GRASS	As listed for PARDNER 225 EC Herbicide used alone plus wild oats, green and yellow foxtail, Persian dandelion and volunteer corn, (refer to Hoe-Grass label for proper timing on grassy weeds). Note: Wild mustard must be sprayed before the 4 leaf stage. Plants sprayed beyond this stage are unlikely to be controlled. Hoe-Grass can only be applied to certain varieties of barley. Refer to the Hoe-Grass label.
PARDNER 225 EC HERBICIDE + AVENGE 200-C	As listed for PARDNER 225 EC Herbicide used alone plus wild oats. Note: Wild oats must be in the 3 to 5 leaf stage and broadleaf weeds in the seedling stage as indicated.
PARDNER 225 EC HERBICIDE + MCPA + AVENGE 200-C	As listed for PARDNER 225 EC Herbicide used alone or in combination with MCPA plus wild oats. For best control of all broadleaved weeds a three-way tank-mix with MCPA ester is preferred, particularly where mustards occur. For more convenience, BUCTRIL M can be used instead of PARDNER 225 EC Herbicide plus MCPA ester for tank-mixing with Avenge 200-C. Note: Wild oats must be in the 3 to 5 leaf stage and broadleaf weeds in the seedling stage as indicated.

OATS
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	The crop may be treated from the 2-leaf until the early flag leaf stage.	The crop may be treated from the 2-leaf until the early flag leaf stage.
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.	PARDNER 225 EC Herbicide at 1.25 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. Note: MCPA-K is preferred for hempnettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide.

OATS - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p>PARDNER 225 EC HERBICIDE USED ALONE</p>	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
<p>PARDNER 225 EC HERBICIDE + MCPA</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds.</p> <p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, VOLUNTEER RAPESEED/CANOLA**, HEMPNETTLE***, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE****, PERENNIAL SOW-THISTLE****, BALL MUSTARD</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p>*** <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></p> <p>**** <i>Top growth control.</i></p>

CORN
(Field and Sweet)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + ATRAZINE
SPRAY VOLUME & PRESSURE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	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.	Corn should be treated from the 4 to 8 leaf stage. Refer to the Atrazine label for limitations on grassy weeds.
APPLICATION RATE	1.25 - 1.50 L/ha. Use of the higher recommended rate will improve control when heavy infestations of weeds are present. PARDNER 225 EC Herbicide 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.	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with Atrazine to 1.1 to 1.5 kg active ingredient per hectare. Add Atrazine to the spray tank first, agitate well, and then add PARDNER 225 EC 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). 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).

CORN
(Field and Sweet)

	PARDNER 225 EC HERBICIDE + LOW RATE OF ATRAZINE
SPRAY VOLUME & PRESSURE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	Corn should be treated from the 4 - 8 leaf stage.
APPLICATION RATE	<p>PARDNER 225 EC Herbicide at 1.25 - 1.50 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 PARDNER 225 EC Herbicide.</p> <p>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.</p>

CORN (FIELD & SWEET) - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p style="text-align: center;">PARDNER 225 EC HERBICIDE USED ALONE</p>	<p style="text-align: center;">SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p style="text-align: center;">SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
<p style="text-align: center;">PARDNER 225 EC HERBICIDE + ATRAZINE</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus weeds as indicated on the Atrazine label.</p>
<p style="text-align: center;">PARDNER 225 EC HERBICIDE + LOW RATE OF ATRAZINE</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus:</p> <p style="text-align: center;">SEEDLINGS UP TO 6 LEAF STAGE</p> <p>REDROOT PIGWEED (TRIAZINE SUSCEPTIBLE), VELVETLEAF*</p> <p style="text-align: center;">SEEDLINGS UP TO 8 LEAF STAGE</p> <p>COMMON RAGWEED</p> <p>* <i>Spray before weeds reach 10 cm in height.</i></p>

**FIELD CORN
(DO NOT USE ON SWEET CORN)**

	PARDNER 225 EC HERBICIDE + BANVEL
SPRAY VOLUME & PRESSURE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	Field corn should be treated from the 4 - 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.
APPLICATION RATE	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with Banvel at 290 mL/ha. Add PARDNER 225 EC Herbicide to the spray tank first, agitate well and then add Banvel. 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 label guide for instructions, precautions and limitations. DO NOT ADD OIL OR SURFACTANT.

FIELD CORN - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE + BANVEL	As listed for PARDNER 225 EC Herbicide used alone plus: SEEDLINGS UP TO THE 6 LEAF STAGE REDROOT PIGWEED AND COMMON RAGWEED INCLUDING TRIAZINE RESISTANT STRAINS.

CORN (Field Corn Only)

PARDNER 225 EC HERBICIDE + ULTIM + NON-IONIC SURFACTANT: EASTERN CANADA

DIRECTIONS FOR USE: FIELD CORN ONLY

Apply the PARDNER 225 EC Herbicide + ULTIM tank-mix ONLY when the temperature in the 24 hours before *and* after application ranges between 5°C and 28°C. Temperatures beyond this range increase the potential for crop injury. Separate applications of ULTIM followed by PARDNER 225 EC Herbicide (minimum 12 hours later) will reduce the potential for injury.

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

MIXING:

Fill the tank about 1/4 full with clean water. Turn on full agitation. Add the required amount of ULTIM and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of PARDNER 225 EC Herbicide, followed by a recommended non-ionic surfactant while agitating. Fill the remainder of the spray tank. Please refer to the ULTIM label for further limitations and precautions on mixing instructions and sprayer cleanup.

	PARDNER 225 EC HERBICIDE + ULTIM + NON-IONIC SURFACTANT
SPRAY VOLUME & PRESSURE	Apply in 200 - 300L water per hectare at a pressure of 275 kPa by ground only. DO NOT APPLY BY AIR.
TIMING	Corn should be treated from the 4 to 6 leaf stage (up to 4 visible collars or 30 cm in height - leaf extended). Please refer to the ULTIM label for further limitations and precautions.
APPLICATION RATE	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with ULTIM at 100 g/ha and a recommended non-ionic surfactant, either CITOWETT® PLUS, AGRAL® 90 or AGSURF® at 2 L per 1000 L spray solution (0.2% v/v).

	FIELD CORN - WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE + ULTIM + NON- IONIC SURFACTANT	As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds: SEEDLINGS UP TO THE 6 LEAF STAGE: BARNYARD GRASS, PROSO MILLET**, YELLOW FOXTAIL, GREEN FOXTAIL, FALL PANICUM, OLD WITCHGRASS AND REDROOT PIGWEED*. 3 TO 6 LEAF STAGE: QUACKGRASS**

* including triazine resistant species, ** Refer to the ULTIM label for specific weed control recommendations.

FALL RYE
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.	PARDNER 225 EC Herbicide at 1.25 L/ha tank-mixed with 275 g active ingredient MCPA per hectare where indicated. Refer to the table at end of book for correct volume of MCPA. Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide. Refer to the MCPA label for precautions and limitations.

FALL RYE (Not underseeded to legumes) - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p>PARDNER 225 EC HERBICIDE USED ALONE</p>	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
<p>PARDNER 225 EC HERBICIDE + MCPA</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds.</p> <p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, VOLUNTEER RAPESEED/CANOLA**, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE**, PERENNIAL SOW-THISTLE**, BALL MUSTARD</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>Top growth control.</i></p>

CANARY SEED
(for seed production)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	The crop may be treated from the 3 to 5 leaf stage.	The crop may be treated from the 3 to 5 leaf stage.
APPLICATION RATE	1.25 L/ha.	PARDNER 225 EC Herbicide at 1.25 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. Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide. Refer to the MCPA label for precautions and limitations.

CANARY SEED (for seed production) - WEEDS CONTROLLED

	WEEDS CONTROLLED
<p>PARDNER 225 EC HERBICIDE USED ALONE</p>	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p>
<p>PARDNER 225 EC HERBICIDE + MCPA</p>	<p>As listed for PARDNER 225 EC Herbicide used alone plus these additional weeds.</p> <p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, VOLUNTEER RAPESEED/CANOLA**, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE**, PERENNIAL SOW-THISTLE**, BALL MUSTARD</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i> ** <i>Top growth control.</i></p>

TRITICALE

	PARDNER 225 EC HERBICIDE USED ALONE
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	The crop may be treated from the 2-leaf until the early flag leaf stage.
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.

TRITICALE - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE USED ALONE	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY

SEEDLING ALFALFA

	PARDNER 225 EC HERBICIDE USED ALONE
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa - ground application only. DO NOT APPLY BY AIR.
TIMING	Seedling alfalfa may be treated at the 2 to 6 trifoliolate leaf stage.
APPLICATION RATE	1.25 L/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 unifoliolate or 1st trifoliolate leaf stage. Avoid overlapping as severe crop injury may occur.

**SEEDLING ALFALFA
WEEDS CONTROLLED**

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE USED ALONE	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY
ESTABLISHED ALFALFA (for seed production only)

	PARDNER 225 EC HERBICIDE USED ALONE
SPRAY VOLUME & PRESSURE	Apply in 100 L water per hectare at a pressure of 275 kPa - ground application only. DO NOT APPLY BY AIR.
TIMING	Established alfalfa may be treated at any stage of growth. Maximum of 2 applications per year.
APPLICATION RATE	1.25 - 1.50 L/ha. If weeds are up to 25 cm tall 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.

**ESTABLISHED ALFALFA (for seed production only) -
WEEDS CONTROLLED**

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE USED ALONE	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

MINIMUM OR ZERO TILL

	PARDNER 225 EC HERBICIDE + ROUNDUP
SPRAY VOLUME & PRESSURE	Apply in 100 L of clean water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	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 for minimum or zero-tillage cropping systems in wheat, barley and oats.
APPLICATION RATE	PARDNER 225 EC HERBICIDE at 1.25 L/ha tank-mixed with ROUNDUP at 1.1 L/ha. A nonionic surfactant is recommended for use with ROUNDUP. PARDNER 225 EC HERBICIDE should be added to the spray tank first, agitate, then add ROUNDUP, agitate, and then add surfactant.

MINIMUM OR ZERO TILL - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE + ROUNDUP**	<p>SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p>SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>GRASSY WEEDS UP TO 15 CM</p> <p>WILD OATS, VOLUNTEER CEREALS, GREEN FOXTAIL</p> <p>* <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></p>

SEEDLING GRASSES
(Not underseeded to legumes)

	PARDNER 225 EC HERBICIDE USED ALONE	PARDNER 225 EC HERBICIDE + MCPA
SPRAY VOLUME & PRESSURE	Apply in 150 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.	Apply in 150 L water per hectare at a pressure of 275 kPa. DO NOT APPLY BY AIR.
TIMING	Seedling grasses may be treated from the 2-4 leaf stage.	The crop may be treated from the 2 to 4 leaf stage.
APPLICATION RATE	<p>1.25 - 1.50 L/ha.</p> <p>If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.</p> <p>Note: Grasses grown for seed production in the year of establishment only.</p> <p>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.</p>	<p>PARDNER 225 EC Herbicide at 1.25 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.</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER 225 EC Herbicide. Refer to the MCPA label for precautions and limitations.</p>

SEEDLING GRASSES - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER 225 EC HERBICIDE USED ALONE	<p style="text-align: center;">SEEDLINGS UP TO 4-LEAF STAGE</p> <p>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</p> <p style="text-align: center;">SEEDLINGS UP TO 8-LEAF STAGE</p> <p>WILD BUCKWHEAT, TARTARY BUCKWHEAT, COMMON BUCKWHEAT, COMMON GROUNDSEL, LAMB'S-QUARTERS</p> <p>* <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></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>
PARDNER 225 EC HERBICIDE + MCPA	<p style="text-align: center;">SEEDLINGS UP TO 4-LEAF STAGE</p> <p>REDROOT PIGWEED, FLIXWEED, BLUEBUR, SHEPHERD'S PURSE, SCENTLESS CHAMOMILE*, VOLUNTEER SUNFLOWER, NIGHT-FLOWERING CATCHFLY, CANADA THISTLE**, PERENNIAL SOW-THISTLE**, BALL MUSTARD</p> <p style="text-align: center;">SEEDLINGS UP TO 8-LEAF STAGE</p> <p>STINKWEED, COMMON RAGWEED, WILD MUSTARD, WORMSEED MUSTARD</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>Top growth control.</i></p>

MIXING TABLE:

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

		PARDNER 225 EC HERBICIDE		MCPA AMINE 500 or MCPA ESTER 500		MCPA-K 400		MCPA SODIUM SALT 300	
Rate active per hectare		280 g	340g	275g	550g	275g	550g	275g	550g
Rate product per hectare		1.25L	1.5L	550 mL	1.1L	690 mL	1.38 L	920 mL	1.83 L
Size of Spray Gallons	Tank Litres	Litres of Chemical to add to spray tank (approx.)							
500	2273	28.4	34.1	12.5	25.0	15.7	31.4	20.9	41.6
400	1818	22.7	27.3	10.0	20.0	12.5	25.0	16.7	33.3
350	1591	19.9	23.9	8.75	17.5	11.0	22.0	14.6	29.2
300	1363	17	20.5	7.5	15.0	9.4	18.8	12.5	25.0
250	1136	14.2	17	6.25	12.5	7.8	15.7	10.5	20.8
200	909	11.4	13.6	5.0	10.0	6.25	12.5	8.4	16.6
100	455	5.7	6.8	2.5	5.0	3.2	6.3	4.2	8.4
50	227	2.8	3.4	1.25	2.5	1.6	3.2	2.1	4.2
22	100	1.25	1.5	550 mL	1.1	690 mL	1.38	920 mL	1.8
10	45	568 mL	682 mL	250 mL	500 mL	310 mL	620 mL	420 mL	820 mL

		PARDNER 225 EC HERBICIDE		2,4-D AMINE 500	2,4-D 600 LV ESTER	2,4-D 700 LV ESTER
Rate active per hectare		280 g	340g	275g	275g	275g
Rate product per hectare		1.25 L	1.5 L	550 mL	458 mL	393 mL
Size of Spray Tank Gallons	Litres	Litres of chemical to add to the spray tank (approx)				
500	2273	28.4	34.1	12.5	10.4	8.9
400	1818	22.7	27.3	10.0	8.3	7.1
350	1591	19.9	23.9	8.75	7.3	6.25
300	1363	17	20.5	7.5	6.25	5.4
250	1136	14.2	17	6.25	5.2	4.5
200	909	11.4	13.6	5.0	4.2	3.6
100	455	5.7	6.8	2.5	2.1	1.8
50	227	2.8	3.4	1.25	1.0	890 mL
22	100	1.25	1.5	550 mL	458 mL	390 mL
10	45	568 mL	682 mL	250 mL	210 mL	180 mL

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