

2020-08-04  
2020-2200

<b>GROUP</b>	<b>6</b>	<b>HERBICIDE</b>
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# CO-OP BROTEX<sup>®</sup> 4AT

**LIQUID HERBICIDE**

CONTAINS BROMOXYNIL

For use in WHEAT (Spring and Winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY SEED (for seed production), TRITICALE, GARLIC, ONION (dry bulb only), SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE SORGHUM, FORAGE MILLET, as a pre-seed/pre-plant application prior to planting CANOLA, ZERO TILL and SUMMER FALLOW

**COMMERCIAL**

READ THE LABEL AND BOOKLET BEFORE USING

ACTIVE INGREDIENT: BROMOXYNIL (present as an ester)..... 480g/L

REGISTRATION NO: 33828  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 9.7 litres

**DANGER**



**POISON**

**EYE IRRITANT**

Manufactured for:  
Federated Co-operatives Limited  
P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9  
By:  
INTERPROVINCIAL COOPERATIVE LIMITED  
P.O. BOX 1050, SASKATOON, SASKATCHEWAN S7K 3M9  
1-204-233-3461

®T.M. Reg'd.

## **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. Wear goggles or face shield during mixing/loading.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

Apply only when the potential for drift to areas of human habitation or 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 applications:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

**Aerial applications: the field crew and the mixer/loaders:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

**Aerial applicators:** Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

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

**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.

Avoid breathing spray mist. After use wash hands and other exposed skin. 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](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning equipment.

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 CO-OP BROTEX 4AT Liquid Herbicide unless otherwise stated on the label. Do not cut treated crops for forage until 30 days after application of CO-OP BROTEX 4AT Liquid Herbicide.

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

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

### Restricted-entry Intervals

Crop	Postapplication Activity	REI
Garlic	Irrigation, handset	2 days
	All other activities	24 hours
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours

### ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas.

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.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning equipment.

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

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

Avoid application when heavy rain is forecast.

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

#### **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 on skin or clothing**, take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

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

**Take 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. Treat symptomatically.

#### **STORAGE:**

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs.

This CO-OP BROTEX 4AT Liquid 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.**

**DISPOSAL:**

#### **RECYCLABLE CONTAINER:**

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.

**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 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.

(Detachable Booklet)

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1-204-233-3461

<sup>®</sup>T.M. Reg'd

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### SECTION 1: GENERAL INFORMATION AND 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. 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 CO-OP BROTEX 4AT Liquid Herbicide 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) medium classification. Boom height must be 60 cm or less above the crop or ground.

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.

#### **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) medium classification. To reduce drift

caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing or rotorspan.

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.

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.

**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:** Read and understand the entire label before opening this product. If you have questions, call Interprovincial Cooperative Limited at 1-204-233-3461 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:** CO-OP BROTEX 4AT Liquid 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, green or pale smartweed, hemp-nettle, redroot pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

### Buffer Zones to Protect Sensitive Habitat

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.

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.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			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%.

### HERBICIDE RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, CO-OP BROTEX 4AT Liquid Herbicide is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to CO-OP BROTEX 4AT Liquid 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 CO-OP BROTEX 4AT Liquid Herbicide or other Group 6 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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 Interprovincial Cooperative Limited representative, or call Interprovincial Cooperative Limited at 1-204-233-3461.

## **PRECAUTIONS:**

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Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

Apply only when the potential for drift to areas of human habitation or 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 applications:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

**Aerial applications: the field crew and the mixer/loaders:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

**Aerial applicators:** Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

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

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.

Avoid breathing spray mist. After use wash hands and other exposed skin. 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](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning equipment.

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 CO-OP BROTEX 4AT Liquid Herbicide unless otherwise stated on the label. Do not cut treated crops for forage until 30 days after application of CO-OP BROTEX 4AT Liquid Herbicide.

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

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

### Restricted-entry Intervals

<b>Crop</b>	<b>Postapplication Activity</b>	<b>REI</b>
<b>Garlic</b>	Irrigation, handset	2 days
	All other activities	24 hours
<b>Sweet Corn</b>	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours

### ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas.

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.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. **DO NOT** contaminate these systems through direct application, disposal of waste or cleaning equipment.

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

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

Avoid application when heavy rain is forecast.

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

### 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 on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

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

**Take 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. Treat symptomatically.

#### **STORAGE:**

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs.

This CO-OP BROTEX 4AT Liquid 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.**

#### **DISPOSAL:**

#### **RECYCLABLE CONTAINER:**

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.

#### **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 regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

## **SECTION 2: Weeds Controlled and Application Timing**

### **APPLICATION TIMING:**

For best results, spray up to 4-leaf stage of weeds. Apply in good growing conditions. Application must be made before the crop shields the weeds.

### **WEEDS CONTROL BY CO-OP BROTEX 4AT Liquid Herbicide ALONE**

#### **Seedlings up to 4-leaf stage:**

Green Smartweed	Common Ragweed
Pale Smartweed	Pigweed****
Lady's-thumb	Cocklebur
Bluebur	Russian thistle**
Kochia**	Wild mustard*
Cow Cockle*	Stinkweed*
Velvet leaf***	American nightshade

#### **Seedlings up to 8-leaf stage:**

Wild buckwheat	Lamb's-quarters
Common buckwheat	Common groundsel
Tartary buckwheat	

\* Under 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 control.

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

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

\*\*\*\* Including triazine resistant pigweed

### **WEEDS CONTROL BY CO-OP BROTEX 4AT Liquid Herbicide + MCPA**

Weeds listed for CO-OP BROTEX 4AT Liquid Herbicide alone **plus** these additional weeds:

#### **Seedlings up to 4-leaf stage:**

Ball mustard	Canada thistle****
Flixweed	Hemp nettle***
Night flowering catchfly	Perennial sowthistle****
Redroot pigweed	Scentsless chamomile*
Shepherd's purse	Volunteer rapeseed/canola**
Volunteer sunflower	

#### **Seedlings up to 8 leaf stage:**

Common ragweed	Stinkweed
Wild mustard	Wormseed mustard

\* Spring annuals only. Will not control overwintered weeds.

- \*\* For high infestations tank-mix 550 g active ingredient MCPA per ha.
- \*\*\* 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
- \*\*\*\* Top growth control.

### **WEEDS CONTROLLED BY CO-OP BROTEX 4AT Liquid Herbicide + 2,4-D**

Weeds listed for CO-OP BROTEX 4AT Liquid Herbicide alone plus these additional weeds:

#### **Seedlings up to 4-leaf stage:**

Redroot pigweed	Shepherd's purse
Night flowering catchfly	Volunteer sunflower
Flixweed*	Ball mustard

#### **Seedlings up to 8 leaf stage:**

Stinkweed*	Wild mustard
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\*The higher rate of 2,4-D is recommended for larger over winter weeds (fall rosettes).

### **SECTION 3 - WHEAT (Spring and Winter — not underseeded to legumes)**

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	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.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA
<b>Spray volume and pressure</b>	Apply in 50–100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	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.
<b>Application rate</b>	Spring wheat: CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with 275–550 g active ingredient MCPA per hectare where indicated. Winter wheat: CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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. <b>Note:</b> MCPA-K is preferred for hemp-nettle 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 CO-OP BROTEX 4AT Liquid Herbicide.
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<b>CO-OP BROTEX 4AT Liquid Herbicide + 2,4-D</b>	
<b>Weeds Controlled</b>	See Section 2
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	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.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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.

**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 CO-OP BROTEX 4AT Liquid Herbicide. Refer to the 2,4-D label for precautions and limitations.

<b>CO-OP BROTEX 4AT Liquid Herbicide + Liquid ACHIEVE® SC Herbicide</b>	
<b>Weeds Controlled:</b>	See Section 2, plus weeds indicated on the Liquid ACHIEVE SC Herbicide Label
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	Durum wheat, spring wheat and winter wheat may be treated from the 2-leaf until the early flag leaf stage of growth.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank mixed with Liquid ACHIEVE SC Herbicide at 0.5 L/ha. When using this tank-mixture, add Turbocharge® to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge per 100 L of spray solution).

**Note:** Follow all mixing and spraying precautions, limitations and timing recommendations on the Liquid ACHIEVE SC Herbicide label. CO-OP BROTEX 4AT Liquid Herbicide and Liquid ACHIEVE SC Herbicide tank-mixtures can be used in all varieties of spring wheat (including Canada Western red spring, amber durum, soft white spring, extra strong and Canada prairie spring) and red winter wheat.

#### **SECTION 4 - BARLEY (not under-seeded to legumes)**

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	The crop may be treated from the 2-leaf until the early flag leaf stage.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.



<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA
<b>Spray volume and pressure</b>	Apply in 50–100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	The crop may be treated from the 2-leaf until the early flag leaf stage.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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 hemp-nettle 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 CO-OP BROTEX 4AT Liquid Herbicide.

<b>CO-OP BROTEX 4AT Liquid Herbicide + 2,4-D</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + 2,4-D
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	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.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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.

**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 CO-OP BROTEX 4AT Liquid Herbicide. Refer to the 2,4-D label for precautions and limitations.

<b>CO-OP BROTEX 4AT Liquid Herbicide + Liquid ACHIEVE SC Herbicide</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the Liquid ACHIEVE SC Herbicide Label.
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa.
<b>Timing</b>	Barley may be treated from the 2-leaf until the early flag leaf stage of growth. <b>Note:</b> CO-OP BROTEX 4AT Liquid Herbicide and Liquid ACHIEVE SC Herbicide tank-mixtures can be used in all 2 or 6 row varieties of barley (malting and feed varieties).
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with Liquid ACHIEVE SC Herbicide at 0.5 L/ha. When using this tank-mixture, add Turbocharge to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge per 100 L of spray solution).

**Note:** Follow all mixing and spraying precautions, environmental precautions, limitations and timing recommendations on the Liquid ACHIEVE SC Herbicide label.

## SECTION 5 - OATS (not under-seeded to legumes)

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	The crop may be treated from the 2-leaf until the early flag leaf stage.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA
<b>Spray volume and pressure</b>	Apply in 50–100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	The crop may be treated from the 2-leaf until the early flag leaf stage.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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 hemp-nettle 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 CO-OP BROTEX 4AT Liquid Herbicide.

## SECTION 6 - CORN (field and sweet)

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	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.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) Use of the higher recommended rate will improve control when heavy infestations of weeds are present. CO-OP BROTEX 4AT Liquid 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.**

<b>CO-OP BROTEX 4AT Liquid Herbicide + atrazine</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the atrazine label.
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Corn should be treated from the 4- to 8-leaf stage. Refer to the ATRAZINE label for limitations on grassy weeds.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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 CO-OP BROTEX 4AT Liquid 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).

<b>CO-OP BROTEX 4AT Liquid Herbicide + low rate atrazine</b>	
<b>Weeds Controlled</b>	See Section 2, plus seedlings up to 6-leaf stage: redroot pigweed (triazine susceptible), velvet leaf*; seedlings up to 8-leaf stage: common ragweed. * Spray before weed reaches 10 cm in height.
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Corn should be treated from the 4- to 8-leaf stage.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6–0.7 L/ha (9.7 L treats 13.8–16.2 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 CO-OP BROTEX 4AT Liquid 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.**

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.

**SECTION 7 - FIELD CORN (do not use on sweet corn)**

<b>CO-OP BROTEX 4AT Liquid Herbicide + BANVEL® or BANVEL II (Do not use on sweet corn)</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the BANVEL II OR BANVEL labels.
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	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.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with BANVEL or BANVEL II at 290 mL/ha. Add CO-OP BROTEX 4AT Liquid Herbicide to the spray tank first, agitate well and then add BANVEL or BANVEL II.

**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 or BANVEL II label guide for instructions, precautions and limitations. **DO NOT ADD OIL OR SURFACTANT.**

<b>CO-OP BROTEX 4AT Liquid Herbicide + ULTIM® 75 DF + Non-Ionic Surfactant (Field Corn Only, Eastern Canada)</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the ULTIM 75DF label.
<b>Spray volume and pressure</b>	Apply in 200–300L water per hectare at a pressure of 275 kPa by ground only. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Corn should be treated from the 4- to 6-leaf stage (up to 4 visible collars or 30 cm in height—leaf extended). Refer to the ULTIM 75DF label for further limitations and precautions.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with ULTIM 75DF at 33.7 g/ha (one water soluble bag) and a recommended non-ionic surfactant such as AG-SURF II at 2 L per 1000 L spray solution (0.2% v/v).

**NOTE:** Apply this 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 75DF followed by CO-OP BROTEX 4AT Liquid Herbicide (minimum 12 hours later) will reduce the potential for injury. Refer to the ULTIM 75DF 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 75DF and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of CO-OP BROTEX 4AT Liquid Herbicide, followed by a recommended non-ionic surfactant while agitating. Fill the

remainder of the spray tank. Refer to the ULTIM 75DF label for further limitations and precautions on mixing instructions and sprayer cleanup.

<b>CO-OP BROTEX 4AT Liquid Herbicide + atrazine + ULTIM 75 DF + Non-Ionic Surfactant (Field Corn Only, Eastern Canada)</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the atrazine and ULTIM 75 DF label.
<b>Spray volume and pressure</b>	Apply in 200–300L water per hectare at a pressure of 275 kPa by ground only. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Corn should be treated from the 3- to 6-leaf stage (up to 4 visible collars or 30 cm in height—leaf extended). Refer to the ULTIM 75DF label for further limitations and precautions.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.3 L/ha (9.7 L treats 32.4 ha) tank-mixed with atrazine at 0.5 kg active ingredient per hectare tank-mixed with ULTIM 75DF at 33.7 g/ha (one water soluble bag) and a recommended non-ionic surfactant such as AG-SURF II at 2 L per 1000 L spray solution (0.2% v/v).

**NOTE:** Apply this 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 75DF followed by CO-OP BROTEX 4AT Liquid Herbicide (minimum 12 hours later) will reduce the potential for injury. Refer to the ULTIM 75DF 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 75DF and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of Atrazine and agitate thoroughly again. Add the required amount of CO-OP BROTEX 4AT Liquid Herbicide, followed by a recommended non-ionic surfactant while agitating. Fill the remainder of the spray tank. Please refer to the ULTIM 75DF label for further limitations and precautions on mixing instructions and sprayer cleanup.

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.

**NOTE 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 Interprovincial Cooperative Ltd. under the User Requested Minor Use Label Expansion program. For these uses, Interprovincial Cooperative Ltd. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**CO-OP BROTEX 4AT LIQUID HERBICIDE + ACCENT 75 DF + NON-IONIC SURFACTANT - FIELD CORN (EASTERN CANADA AND PRAIRIE PROVINCES)**

<b>Weeds Controlled</b>	See Section 2, plus weeds indicated on the ACCENT 75 DF label.
<b>Spray volume and pressure</b>	Apply in a minimum of 100 L water per hectare at a pressure of 275 kPa by ground only. <b>DO NOT apply using aerial application equipment..</b>
<b>Timing</b>	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 75 DF label for further limitations and precautions.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with ACCENT 75 DF at 33.4 g/ha and a recommended non-ionic surfactant such as AG-SURF II at 2 L per 1000 L spray solution (0.2% v/v).

## SECTION 8 - FALL RYE (not under-seeded to legumes)

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA
<b>Spray volume and pressure</b>	Apply in 50–100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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.

**Note:** MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add CO-OP BROTEX 4AT Liquid Herbicide. Refer to the MCPA label for precautions and limitations.

## SECTION 9 - FLAX (including low linolenic acid varieties)

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply CO-OP BROTEX 4AT Liquid Herbicide when flax is 5–10 cm high.
<b>Application rate</b>	0.6 L/ha. (9.7 L treats 16.2 ha.)

**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. Observe a minimum interval to harvest of 60 days after application of CO-OP BROTEX 4AT Liquid Herbicide.

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 CO-OP BROTEX 4AT Liquid Herbicide when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA or MCPA-K</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA mixture
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment..</b>
<b>Timing</b>	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply CO-OP BROTEX 4AT Liquid Herbicide when flax is 5–10 cm high.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with MCPA or MCPA-K at 275 g a.i./ha. Follow all precautions, limitations and timing recommendations on MCPA labels. The amine, ester or K-salt formulations of MCPA can be used in tank-mixtures.

**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. Observe a minimum interval to harvest of 60 days after application of CO-OP BROTEX 4AT Liquid Herbicide.

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 CO-OP BROTEX 4AT Liquid Herbicide when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.

#### **SECTION 10 - CANARY SEED (*Phalaris canariensis*; for seed production)**

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	The crop may be treated from the 3- to 5-leaf stage.
<b>Application rate</b>	0.6 L/ha. (9.7 L treats 16.2 ha.)

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA mixture
<b>Spray volume and pressure</b>	Apply in 50–100 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	The crop may be treated from the 3- to 5-leaf stage.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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 CO-OP BROTEX 4AT Liquid Herbicide. Refer to the MCPA label for precautions and limitations.



## SECTION 11 – TRITICALE

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water/ha at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	The crop may be treated from the 2-leaf until the early flag leaf stage.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 ha.) If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.

## SECTION 12 – GARLIC

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Apply early post emergent to weeds by ground application only. One application per year. Observe a PHI of 58 days.
<b>Application rate</b>	0.6 L/ha. (9.7 L treats 16.2 ha.)

**SECTION 13 – 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 Interprovincial Cooperative Limited under the User Requested Minor Use Label Expansion program. For these uses, Interprovincial Cooperative Limited 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.

	<b>Spray Volume and Pressure</b>	<b>Timing</b>	<b>Application Rate</b>
CO-OP BROTEX 4AT used alone	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 CO-OP BROTEX 4AT EC twice per season, each time at a rate of 0.3 L/ha <b>Application Precaution:</b> CO-OP BROTEX 4AT 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.
<b>WEEDS CONTROLLED</b>			
<b>Seedlings up to 4-leaf stage:</b>	Redroot pigweed, common groundsel.		

**SECTION 14 - SEEDLING and ESTABLISHED ALFALFA (seed production only)  
PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY**

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 100 L water/ha at a pressure of 275 kPa. Ground application only. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Seedling alfalfa – From the 2 to 6 trifoliolate leaf stage. Do not apply to seedlings under stress Established alfalfa - Until alfalfa is 25 cm tall. Maximum of 2 applications per year.
<b>Application rate</b>	Seedling - 0.6 L/ha. (9.7 L treats 16.2 ha.) Established for seed – 0.6 – 0.7 L/ha (9.7 L treats 13.8–16.2 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. Do not apply if crop is under stress. Do not apply to alfalfa seedlings in the unifoliolate or 1<sup>st</sup> trifoliolate leaf stage. Avoid overlapping as severe crop injury may occur. In established stands - crop will recover and yield will not be affected.

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.

**SECTION 15 - PRE-SEED/PRE-PLANT APPLICATION PRIOR TO SEEDING  
CANOLA**

<b>CO-OP BROTEX 4AT Liquid Herbicide + RoundUp WeatherMAX® with Transorb 2 Technology Liquid Herbicide</b>	
<b>Weeds Controlled</b>	Volunteer canola (all types) in addition to weeds listed in Section 2 of this label except kochia, plus <i>annual</i> * and <i>perennial</i> ** weeds controlled on the RoundUp WeatherMAX with Transorb 2 Technology Liquid Herbicide label.1
<b>Spray volume and pressure</b>	Apply in 100 L of <b>clean</b> water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Application can be made up to one day prior to seeding. <b>DO NOT</b> apply after seeding or crop emergence.
<b>Application rate</b>	Apply CO-OP BROTEX 4AT Liquid Herbicide at 730 mL/ha tank mixed with Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide at 0.83 -1.27 L/ha (annual weeds*) or 1.67-3.33 L/ha (perennial weeds**) prior to the planting of canola. CO-OP BROTEX 4AT Liquid Herbicide should be added to the spray tank first and the RoundUp WeatherMAX with Transorb 2 Technology Liquid Herbicide added last.

\*,\*\* Refer to RoundUp WeatherMAX with Transorb 2 Technology Liquid Herbicide label for complete information on weeds controlled, rates, precautions, registered crop species, mixing and instructions. Follow the most restrictive label for the application of this tank-mix.

## SECTION 16 - MINIMUM OR ZERO TILL

<b>CO-OP BROTEX 4AT Liquid Herbicide + glyphosate herbicide*</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds controlled on glyphosate labels
<b>Spray volume and pressure</b>	Apply in 100 L of <b>clean</b> water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	This recommendation applies only to minimum or zero till situations <b>before</b> 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.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with glyphosate. Refer to individual glyphosate labels for rates and registered crop species. A non-ionic surfactant is recommended for use with glyphosate. CO-OP BROTEX 4AT Liquid Herbicide should be added to the spray tank first, agitate then add glyphosate, agitate and then add surfactant.

**\*Note:** Glyphosate herbicide (present as potassium salt, isopropylamine salt, ammonium salt, mono-ammonium salt, diammonium salt, dimethylamine salt or trimethylsulfonium salt) may be tank-mixed with CO-OP BROTEX 4AT Liquid Herbicide for use in minimum or zero tillage systems. Follow the most restrictive label for the application of this tank-mix.

## SECTION 17 – SUMMER FALLOW

<b>CO-OP BROTEX 4AT Liquid Herbicide + glyphosate herbicide*</b>	
<b>Weeds Controlled</b>	See Section 2, plus weeds controlled on glyphosate labels
<b>Spray volume and pressure</b>	Apply in 100 L of <b>clean</b> water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Ensure weeds are at the desired growth stage and actively growing at application for best results. Reduced control may result if weeds are drought stressed. Weeds will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 ha) tank-mixed with glyphosate. Refer to individual glyphosate labels for rates. A non-ionic surfactant is recommended for use with glyphosate. CO-OP BROTEX 4AT Liquid Herbicide should be added to the spray tank first, agitate then add glyphosate, agitate and then add surfactant.

**\*Note:** Glyphosate herbicide (present as potassium salt, isopropylamine salt, ammonium salt, mono-ammonium salt, diammonium salt, dimethylamine salt or trimethylsulfonium salt) may be

tank-mixed with CO-OP BROTEX 4AT Liquid Herbicide for use in summer fallow. Follow the most restrictive label for the application of this tank-mix.

### SECTION 18 - SEEDLING GRASSES (not under-seeded to legumes)

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 150 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Seedling grasses may be treated from the 2- to 4-leaf stage.
<b>Application rate</b>	0.6–0.7 L/ha. (9.7 L treats 13.8–16.2 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.

<b>CO-OP BROTEX 4AT Liquid Herbicide + MCPA</b>	
<b>Weeds Controlled</b>	See Section 2 under CO-OP BROTEX 4AT Liquid Herbicide + MCPA mixture
<b>Spray volume and pressure</b>	Apply in 150 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	Seedling grasses may be treated from the 2- to 4-leaf stage.
<b>Application rate</b>	CO-OP BROTEX 4AT Liquid Herbicide at 0.6 L/ha (9.7 L treats 16.2 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 CO-OP BROTEX 4AT Liquid Herbicide. Refer to the MCPA label for precautions and limitations.

### SECTION 19 - FORAGE SORGHUM AND FORAGE MILLET

<b>CO-OP BROTEX 4AT Liquid Herbicide used ALONE</b>	
<b>Weeds Controlled</b>	See Section 2.
<b>Spray volume and pressure</b>	Apply in 200–300 L water per hectare at a pressure of 275 kPa. <b>DO NOT apply using aerial application equipment.</b>
<b>Timing</b>	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.
<b>Application rate</b>	0.6 L/ha. (9.7 L treats 16.2 ha.)

## **SECTION 20 – NOTICE**

**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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**SECTION 21 - MIXING TABLE:**

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

		<b>CO-OP BROTEX 4AT Liquid Herbicide (480 g/L)</b>		<b>MCPA AMINE 500 or MCPA ESTER 500</b>		<b>MCPA- K 400</b>		<b>MCPA SODIUM SALT 300</b>	
<b>Rate active per hectare</b>		<b>280 g</b>	<b>340 g</b>	<b>275 g</b>	<b>550 g</b>	<b>275 g</b>	<b>550 g</b>	<b>275 g</b>	<b>550 g</b>
<b>Rate product per hectare</b>		<b>0.6 L</b>	<b>0.7 L</b>	<b>550 mL</b>	<b>1.1 L</b>	<b>690 mL</b>	<b>1.38 L</b>	<b>920 mL</b>	<b>1.83 L</b>
<b>Size of spray tank</b>		<b>Litres of chemical to add to spray tank (approx.)</b>							
<b>Gallons</b>	<b>Litres</b>								
500	2273	13.6	15.9	12.5	25.0	15.7	31.4	20.9	41.6
400	1818	10.9	12.75	10.0	20.0	12.5	25.0	16.7	33.3
350	1591	9.55	11.15	8.75	17.5	11.0	22.0	14.6	29.2
300	1363	8.15	9.5	7.5	15.0	9.4	18.8	12.5	25.0
250	1136	6.8	7.95	6.25	12.5	7.8	15.7	10.5	20.8
200	909	5.45	6.35	5.0	10.0	6.25	12.5	8.4	16.6
100	455	2.7	3.15	2.5	5.0	3.2	6.3	4.2	8.4
50	227	1.35	1.6	1.25	2.5	1.6	3.2	2.1	4.2
22	100	0.6	0.7	550 mL	1.1	690 mL	1.38	920 mL	1.8
10	45	270 mL	315 mL	250 mL	500 mL	310 mL	620 mL	420 mL	820 mL

  

		<b>CO-OP BROTEX 4AT Liquid Herbicide (480 g/L)</b>		<b>2,4-D AMINE 500</b>	<b>2,4-D 600 LV ESTER</b>	<b>2,4-D 700 LV ESTER</b>
<b>Rate active per hectare</b>		<b>280 g</b>	<b>340 g</b>	<b>275 g</b>	<b>275 g</b>	<b>275 g</b>
<b>Rate product per hectare</b>		<b>0.6 L</b>	<b>0.7 L</b>	<b>550 mL</b>	<b>458 mL</b>	<b>393 mL</b>
<b>Size of spray tank</b>		<b>Litres of chemical to add to the spray tank (approx.)</b>				
<b>Gallons</b>	<b>Litres</b>					
500	2273	13.6	15.9	12.5	10.4	8.9
400	1818	10.9	12.75	10.0	8.3	7.1
350	1591	9.55	11.15	8.75	7.3	6.25
300	1363	8.15	9.5	7.5	6.25	5.4
250	1136	6.8	7.95	6.25	5.2	4.5
200	909	5.45	6.35	5.0	4.2	3.6
100	455	2.7	3.15	2.5	2.1	1.8
50	227	1.35	1.6	1.25	1.0	890 mL
22	100	0.6	0.7	550 mL	458 mL	390 mL
10	45	270 mL	315 mL	250 mL	210 mL	180 mL

(Base Label)

**GROUP 6 HERBICIDE**

# CO-OP BROTEX<sup>®</sup> 4AT

**LIQUID HERBICIDE**

CONTAINS BROMOXYNIL

For use in WHEAT (Spring and Winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY SEED (for seed production), TRITICALE, GARLIC, ONION (dry bulb only), SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE SORGHUM, FORAGE MILLET, as a pre-seed/pre-plant application prior to planting CANOLA, ZERO TILL and SUMMER FALLOW

## COMMERCIAL

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

ACTIVE INGREDIENT: BROMOXYNIL (present as an ester)..... 480 g/L

REGISTRATION NO: 33828  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 9.7 litres

**DANGER**



**POISON**

**EYE IRRITANT**

Manufactured for:

Federated Co-operatives Limited

P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9

By:

INTERPROVINCIAL COOPERATIVE LIMITED

P.O. BOX 1050, SASKATOON, SASKATCHEWAN S7K 3M9

1-204-233-3461

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