



Pixxaro™ A Herbicide

with ARYLEX™ ACTIVE

GROUP	4	HERBICIDE
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FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE INTERIOR OF BRITISH COLUMBIA AND IN EASTERN CANADA

Pixxaro™ A Herbicide is a selective herbicide for postemergent control of annual broadleaved weeds including chickweed, cleavers, hemp-nettle, kochia, lamb's-quarters, redroot pigweed and wild buckwheat in spring wheat (including durum), winter wheat and spring barley.

AGRICULTURAL

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

ACTIVE INGREDIENT: halauxifen, present as methyl ester 16.25 g/L
fluroxypyr, present as 1-methylheptyl ester 250 g/L
Emulsifiable Concentrate

**WARNING EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NUMBER 31303 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L - bulk

Dow AgroSciences Canada Inc.
2400, 215-2nd Street SW
Calgary, Alberta
T2P 1M4
1-800-667-3852

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer.

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

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.

At all times: Wear clean clothing with full length sleeves and pants, socks and shoes.

During mixing and loading, and clean-up and repair: Wear chemical-resistant gloves. Rinse gloves before removal. Use goggles or faceshield.

At completion of spraying or end of the day: Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse.

FIRST AID

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

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

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

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

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

ENVIRONMENTAL HAZARDS

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

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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

STORAGE

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

To prevent contamination store this product away from food or feed.

DISPOSAL

Recyclable Containers:

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

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

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

Returnable Containers:

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

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

GENERAL INFORMATION

Pixxaro A Herbicide is a selective postemergence herbicide for the control of hard-to-kill annual broadleaved weeds such as chickweed, cleavers, hemp-nettle, kochia, lamb's-quarters, redroot pigweed and wild buckwheat in spring wheat (including durum), winter wheat, and spring barley, not underseeded with legumes. Pixxaro A Herbicide is mixed with water and applied as a uniform broadcast spray either by ground or aerial application. It is non-corrosive, nonflammable, and nonvolatile.

Pixxaro A Herbicide must be applied early postemergence, to the main flush of actively growing broadleaved weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Pixxaro A Herbicide by allowing maximum foliar uptake and activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See DIRECTIONS FOR USE section of this label for complete use details.

MODE OF ACTION

Pixxaro A Herbicide is a systemic auxin-type herbicide that moves within the plant for control of exposed and underground plant tissues. The product controls weeds by disrupting normal plant growth patterns. Symptoms of weeds include epinasty (twisting of the stems) and swollen nodes.

GENERAL USE PRECAUTIONS

Sensitive Plants

Do not apply Pixxaro A Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, flax, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

Non-Target Sites

Do not apply where proximity of susceptible crops (e.g. flax and legumes) or other desirable plants is likely to result in exposure to spray or spray drift. See ENVIRONMENTAL HAZARDS section of this label.

Crop Rotation

Fields previously treated with Pixxaro A Herbicide can be seeded after a minimum of 10 months to spring wheat, spring barley, oats, canola, corn, soybeans, sunflowers, flax, field peas, potatoes (except seed potatoes), mustard, alfalfa, dry bean (*Phaseolus vulgaris* species including pinto, kidney and white types) and timothy or fields can be summerfallowed. Lentils can be planted 22 months after application of Pixxaro A Herbicide. Fall rye and winter wheat can be planted 3 months after application of Pixxaro A Herbicide.

Tank Mixtures

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Dow AgroSciences Canada Inc at 1-800-667-3852 or www.dowagro.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Dow AgroSciences Canada Inc.

Spray Equipment Precaution

Do not apply through any type of irrigation system.

To Reduce Spray Drift:

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

Sprayer clean-out

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

1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. First rinse:
 - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
 - Agitate and circulate for 15 minutes, and flush through booms and hoses.
 - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - Drain tank completely.
3. Second rinse:
 - Fill the tank with clean water.
 - Add All Clear Spray Tank Decontaminator as per manufacturer's recommendations while filling the tank with clean water.
 - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.

- After flushing the boom and hoses, drain tank completely.
 - Remove nozzles and all main filter and nozzle screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).
4. Third rinse:
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
 - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
 - Drain tank completely.

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

DIRECTIONS FOR USE

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

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

APPLICATION METHODS

(1) Ground Application

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

Field sprayer application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

(2) Aerial Application

Directions for Use

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

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

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

Aerial application

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

Use Precautions

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

Operator Precautions

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

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

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

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

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 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: Avoid spray drift at the application site. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

PIXXARO A HERBICIDE ALONE

Crops Registered

Spring wheat (including durum), winter wheat and spring barley

Field Sprayer Application Directions

Spring wheat (including durum) and spring barley, apply the recommended rate of Pixxaro A Herbicide per hectare in 50-200 L per hectare of water. Add Turbocharge (or a registered equivalent adjuvant) at 0.5% v/v. Apply to actively growing spring wheat and spring barley from the 1 leaf stage to just prior to flag leaf emergence.

Winter wheat, apply the recommended rate of Pixxaro A Herbicide per hectare in 50-200 L per hectare of water. Add Turbocharge (or a registered equivalent adjuvant) at 0.5% v/v. Apply to actively growing winter wheat from the 3 leaf stage to just prior to flag leaf emergence.

See weed species controlled under "Weeds Controlled or Suppressed by Pixxaro A Herbicide Alone". Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Aerial Sprayer Application Directions

Apply the recommended rate of Pixxaro A Herbicide per hectare in a minimum of 30 L per hectare of water. Add Turbocharge (or a registered equivalent adjuvant) at 0.5% v/v. See weeds species controlled under "Weeds Controlled or Suppressed by Pixxaro A Herbicide Alone." Apply to actively growing spring wheat and spring barley from the 1 leaf stage to just prior to flag leaf emergence. In winter wheat apply from 3 leaf stage to just prior to flag leaf emergence. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Application Timing

Apply to actively growing weeds at the 1-8 leaf stage unless otherwise specified. Extreme growing conditions such as drought or near freezing temperature prior to, at or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Only weeds which are emerged at the time of application will be affected. If foliage is wet at the time of application control may be decreased. Under conditions of low crop and high weed density, control may be reduced.

Applications of Pixxaro A Herbicide are rainfast within 1 hour of application.

Weeds Controlled or Suppressed by Pixxaro A Herbicide Alone at 308 ml/ha (1-8 leaf stage, unless otherwise specified, including Group 2 resistant biotypes)

Weeds Controlled:

alfalfa, volunteer (up to 25 cm in height)	hemp-nettle
American dragonhead (up to bud stage and 15 cm in height)	henbit (up to bud stage and 15 cm in height)
buckwheat, wild	kochia (up to 15 cm in height)
chickweed	lamb's-quarters
cleavers (1-9 whorl stage)	nightshade species, (including eastern black, hairy and cutleaf, up to the 6-leaf stage)
cow cockle (up to 8 leaf stage and 15 cm in height)	pigweed, redroot
flax, volunteer (up to 15 cm in height)	ragweed, common (up to 6-leaf stage)*
fleabane, Canada (up to 15 cm in height)	round-leaved mallow (up to the 6-leaf stage)
♦	shepherd's-purse (up to bolting & 20 cm in height)
flixweed (up to 8 leaf & 8 cm in height)	stork's-bill (up to the 8-leaf stage)
giant ragweed (up to the 8-leaf stage) ♦	velvetleaf (up to the 5-leaf stage)

Weeds Suppressed:

mustard, wild (1-4 leaf stage, up to 10 cm in height)
sow-thistle, annual (up to 5 leaf stage)

*Including Group 2 and 9 resistant biotypes

Mixing Instructions for Pixxaro A Herbicide Alone

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Pixxaro A Herbicide.
4. Fill the sprayer tank with sufficient water to spray 30-200 L of spray mixture per hectare.
5. Add Turbocharge as the last ingredient at the rate of 0.5% v/v (5 L per 1000 L of spray volume).
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. flax and legumes).
7. Follow sprayer clean-up directions.

Preharvest/Grazing Intervals

- Livestock may be grazed on treated crops 7 days following application.
- Do not harvest the treated crop within 60 days after application.
- Do not cut the treated crop for hay or silage within 21 days after application.

TANK MIXING PIXXARO A + OTHER TANK-MIX PARTNERS

MIXING INSTRUCTIONS FOR TANK MIXING PIXXARO A HERBICIDE + OTHER TANK-MIX PARTNERS

1. Begin to fill sprayer tank with clean water, and engage agitator. **Agitation must be continued throughout the entire mixing and spraying procedure.**
2. If including an annual grass control tank-mix partner add it next. Agitate for 2-3 minutes.
3. When the sprayer is half full of water, add Pixxaro A Herbicide and agitate for 2-3 minutes.
4. If including MCPA ester or Curtail M add it next. Agitate for 2-3 minutes.
5. Add Turbocharge at 0.5% v/v or adjuvant indicated in the below tables for the annual grass control product.
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. After any break in spraying operations, agitate thoroughly before spraying again.
8. **Use the spray suspension as soon as it is prepared.**

TANK-MIX COMBINATIONS – PIXXARO A HERBICIDE + MCPA ESTER HERBICIDE

Crops Registered

spring wheat (including durum), winter wheat, spring barley

Field Sprayer Application Directions

For control of a wide spectrum of broadleaf weeds apply Pixxaro A Herbicide tank mixed with MCPA ester (600 g ae/L) at 583-700 mL/ha in 50–200 L per hectare of water. Apply to actively growing wheat or spring barley from the 3 leaf stage to just prior to flag leaf emergence. In winter wheat apply from 3 leaf stage to just prior to flag leaf emergence. Apply when weeds are actively growing. Only weeds emerged at the time of treatment when be controlled. Best results are obtained from applications made to seedling weeds. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on all product labels.

Aerial Sprayer Application Directions

Apply the recommended rate of Pixxaro A Herbicide per hectare tank mixed with MCPA ester (600 g ae/L) at 583-700 mL/ha in a minimum of 30 L per hectare of water for use in spring wheat (including durum) and spring barley only.

Weeds Controlled or Suppressed by Pixxaro A Herbicide at 308 mL/ha + MCPA ester (600 g ae/L) at 583-700 mL/ha (up to 10 cm in height or diameter, unless otherwise specified, including Group 2 resistant biotypes)

Weeds Controlled:

alfalfa, volunteer (up to 25 cm in height)	nightshade species, (including eastern black,
buckwheat, wild (1-8 leaf)	hairy and cutleaf, up to the 6-leaf stage)
burdock (before the 4-leaf stage)	pigweed, redroot (1-8 leaf)*
canola, volunteer (1-8 leaf)	plantain, common
chickweed (1-8 leaf)	prickly lettuce
cleavers (1-9 whorl)	ragweed, common (up to 6-leaf stage)**
cocklebur	ragweeds (false, giant)
flax, volunteer (up to 15 cm in height)	round-leaved mallow (up to the 6-leaf stage)
fleabane, Canada (up to 15 cm in height)**	shepherd's-purse(up to bolting & 20 cm in
flixweed	height)
hemp-nettle (1-8 leaf)	sow-thistle, annual (up to 4 leaf stage)
giant ragweed (up to the 8-leaf stage) **	stinkweed
kochia (up to 15 cm in height)	stork's-bill (up to the 8-leaf stage)
lamb's-quarters (1-8 leaf)	velvetleaf (up to the 5-leaf stage)
mustard, ball	vetch
mustard, wild	wild radish
	wild (annual) sunflower

Weeds Suppressed

dandelion (seedlings & over-wintered rosettes up to 30 cm in diameter)
field horsetail (up to 15 cm in height)
smartweed, annual (green smartweed, lady's thumb) ♦
sow-thistle, perennial (up to the 6-leaf stage)
thistle, Canada (up to the bolting stage, 30 cm in height)

*For improved control of large weeds and/or heavy weed infestations, use the 700 mL/ha rates of MCPA

**Including Group 2 and 9 resistant biotypes.

Mixing Instructions

See mixing instructions for PIXXARO A HERBICIDE + MCPA ESTER HERBICIDE in section entitled MIXING INSTRUCTIONS FOR TANK MIXING PIXXARO A HERBICIDE+ OTHER TANK-MIX PARTNERS.

Note: When tank mixing Pixxaro A Herbicide + MCPA an adjuvant is not required.

TANK-MIX COMBINATIONS – PIXXARO A HERBICIDE + CURTAIL M

Crops Registered

Spring wheat (including durum), winter wheat, spring barley

Field Sprayer Application Directions

For control of a wide spectrum of broadleaf weeds apply Pixxaro A Herbicide tank mixed with Curtail M at 1.5 L/ha in 100 L per hectare of water. Apply to actively growing wheat or spring barley from the 3 leaf stage to just prior to flag leaf emergence. Only weeds emerged at the time of treatment when be controlled. Best results are obtained from applications made to seedling weeds. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on all product labels.

Weeds Controlled or Suppressed by Pixxaro A Herbicide at 308 mL/ha + Curtail M at 1.5 L/ha (up to 10 cm in height or diameter, unless otherwise specified)

Weeds Controlled:

alfalfa, volunteer (up to 25 cm in height)	mustard, wild
buckwheat, wild (1-8 leaf)	nightshade species, (including eastern black, hairy and cutleaf, up to the 6-leaf stage)
burdock	pigweed, redroot (1-8 leaf)
canola, volunteer (1-8 leaf)	plantain (top growth)
chickweed (1-8 leaf)	prickly lettuce
cleavers (1-9 whorl)	radish, wild
cocklebur	ragweed, common (up to 6 leaf stage)*
field horsetail (top growth)	round-leaved mallow (up to the 6-leaf stage)
flax, volunteer (up to 15 cm in height)	shepherd's-purse (up to bolting & 20 cm in height)
fleabane, Canada (up to 15 cm in height)♦	sow-thistle, annual (up to 4 leaf stage)
flixweed	stinkweed
giant ragweed (up to the 8-leaf stage) ♦	stork's-bill (up to the 8-leaf stage)
hemp-nettle (1-8 leaf)	sunflower, annual
kochia (up to 15 cm in height)	sunflower, volunteer
lamb's-quarters (1-8 leaf)	thistle, Canada (up to 15 cm in height)
mustard, ball	velvetleaf (up to the 5-leaf stage)

*Including Group 2 and 9 resistant biotypes vetch

Weeds Suppressed:

field horsetail (up to 15 cm in height)
sow-thistle, perennial, (up to 6-leaf stage)

Mixing Instructions

See mixing Instructions for PIXXARO A HERBICIDE + CURTAIL M in section entitled MIXING INSTRUCTIONS FOR TANK MIXING PIXXARO A HERBICIDE+ OTHER TANK-MIX PARTNERS.

Note: When tank mixing Pixxaro A Herbicide+ Curtail M an adjuvant is not required.

TANK-MIX COMBINATIONS – PIXXARO A HERBICIDE + OTHER HERBICIDES FOR ANNUAL GRASS CONTROL FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA ONLY (except for Puma¹²⁰ Super or Puma Advance which can be used on spring wheat and spring barley in Eastern Canada)

For control of annual grasses (see table below) tank-mix Pixxaro A Herbicide with the following graminicides. Refer to the above table for broadleaved weeds controlled or suppressed with Pixxaro A Herbicide. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on all product labels.

Tank-Mix Combinations with Pixxaro A Herbicide for Annual Grass Control

Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
Simplicity GoDRI™	spring wheat, durum wheat, winter wheat	70 g/ha	Agral 90, AgSurf or Surf 92 0.25 v/v	wild oats, barnyard grass, Japanese brome, yellow foxtail, green foxtail, downy brome
Simplicity	spring wheat, durum wheat	500 mL/ha	Agral 90, AgSurf or Surf 92 0.25 v/v	wild oats, barnyard grass, Japanese brome, yellow foxtail, green foxtail, downy brome
Liquid Achieve™ SC	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5% v/v	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, Persian darnel
Axial 100 EC	spring wheat, spring barley	0.6 L/ha	Adigor at 0.7 L/ha	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet
Axial Herbicide	spring wheat, spring barley	1200 mL/ha	Not required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet
Horizon 240EC*	spring wheat, durum wheat	0.23 L/ha	Score at 0.8% v/v	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed
Horizon NG	spring wheat, durum wheat	0.93 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed
Puma 120 Super**	spring wheat, durum wheat, spring barley	0.77 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass
Puma Advance	spring wheat, durum wheat, spring barley	1.02 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass

Everest 2.0***	spring wheat, durum wheat	36-72 mL/ha	Ag-Surf or Agral 90 at 0.25% v/v	wild oats, green foxtail, volunteer tame oats, green smartweed, wild mustard, shepherd's purse, stinkweed, volunteer canola**** Consult Everest 2.0 label for rate-specific claims
Traxos Herbicide	spring wheat, durum wheat	1.2 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet, Persian darnel

*Horizon 240EC may be substituted with any equivalent product delivering 56 g ai/ha clodinafop-propargyl at the label use rate.

**Puma 120 Super may be substituted with any equivalent product delivering 92 g ai/ha fenoxaprop-p-ethyl

***Everest 2.0 may be substituted with any equivalent product delivering 15-30 g ai/ha flucarbazone-sodium

****Will not control volunteer Imidazolinone-tolerant canola (Clearfield varieties)

Mixing Instructions

See mixing Instructions for PIXXARO A HERBICIDE + OTHER HERBICIDES FOR ANNUAL GRASS CONTROL in section entitled MIXING INSTRUCTIONS FOR TANK MIXING PIXXARO A + OTHER TANK-MIX PARTNERS.

TANK-MIX COMBINATIONS WITH PIXXARO A HERBICIDE + MCPA ESTER OR CURTAIL M + OTHER HERBICIDES FOR ANNUAL GRASS CONTROL

Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant and Rate	Additional Weeds Controlled
Simplicity GoDRI	spring wheat, durum wheat, winter wheat	70 g/ha	Agral 90, AgSurf or Surf 92 0.25 v/v	wild oats, barnyard grass, Japanese brome, yellow foxtail, green foxtail, downy brome, spreading atriplex (up to bud stage and 15 cm in height) Suppression of field violet (up to 6 leaf stage and 10 cm in size)
Simplicity	spring wheat, durum wheat	500 mL/ha	Agral 90, AgSurf or Surf 92 0.25 v/v	wild oats, barnyard grass, Japanese brome, yellow foxtail, green foxtail, downy brome
Liquid Achieve™ SC	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5% v/v	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, Persian darnel
Axial 100 EC	spring wheat, spring barley	0.6 L/ha	Adigor at 0.7 L/ha	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet
Axial Herbicide	spring wheat, spring barley	1200 mL/ha	Not required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet
Horizon 240EC*	spring wheat, durum wheat	0.23 L/ha	Score at 0.8% v/v	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed
Horizon NG	spring wheat, durum wheat	0.93 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed

Puma 120 Super**	spring wheat, durum wheat, spring barley	0.77 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass
Puma Advance	spring wheat, durum wheat, spring barley	1.02 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass
Everest 2.0***	spring wheat, durum wheat	36-72 mL/ha	Ag-Surf or Agral 90 at 0.25% v/v	wild oats, green foxtail, volunteer tame oats, green smartweed Consult Everest 2.0 label for rate-specific claims
Traxos Herbicide	spring wheat, durum wheat	1.2 L/ha	None required	wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed, proso millet, Persian darnel

*Horizon 240EC may be substituted with any equivalent product delivering 56 g ai/ha clodinafop-propargyl at the label use rate.

**Puma 120 Super may be substituted with any equivalent product delivering 92 g ai/ha fenoxaprop-p-ethyl

***Everest 2.0 WDG may be substituted with any equivalent product delivering 24 g ai/ha flucarbazone

Mixing Instructions

See mixing Instructions for PIXXARO A HERBICIDE + MCPA ESTER OR CURTAIL M + OTHER HERBICIDES FOR ANNUAL GRASS CONTROL in section entitled MIXING INSTRUCTIONS FOR TANK MIXING PIXXARO A HERBICIDE+ OTHER TANK-MIX PARTNERS.

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), 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 Habitat of Depths:		Terrestrial Habitat	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley	1	1	1	0	2	
Aerial	Spring wheat, durum wheat, winter wheat, spring barley	Fixed wing	5	1	1	0	80
		Rotary wing	5	1	1	0	65

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

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Pixxaro A Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Pixxaro A Herbicide and other Group 4 herbicide. 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 Pixxaro A Herbicide or other Group 4 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Dow AgroSciences Canada Inc. at 1-800-667-3852.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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102318

Label Code: CN-31303-011-E

Replaces: CN-31303-010-E

Specimen label notes:

Add henbit, American dragonhead and cow cockle to the 308 mL/ha rate section

Add Atriplax and field violet to the TM of Pixxaro A + MCPA ester + Simplicity GoDRI at 70 g/ha