

(Container)

Momentum™

GROUP	4	HERBICIDE
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Momentum is a selective herbicide for postemergent control of annual and perennial broadleaved weeds in spring wheat, durum wheat, and spring barley.

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA.

AGRICULTURAL

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

GUARANTEE: clopyralid 90 g a.e./L
(present as monoethanolamine salt)
fluroxypyr 90 g a.e./L
(present as 1-methylheptyl ester)

Emulsifiable Concentrate

REGISTRATION NO. 30456 PEST CONTROL PRODUCTS ACT

WARNING - EYE IRRITANT

NET CONTENTS: 1 L

©j YUbX'DfcXi Wg'7 UbUXU-bW
789 Donnybrook Drive
Dorchester, ON N0L 1G5
For information: 1-800-328-4678

™ Trademark of Viterro Inc.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DO NOT APPLY BY AIR

Causes eye irritation. DO NOT get in eyes. Avoid inhalation of vapour or spray mist and contact with eyes, skin or clothing.

Do not take internally. Handle with care and mix only in a closed container. Use only in a well ventilated area. Wash thoroughly after handling and before eating, drinking, smoking or using the bathroom. Take a shower immediately after work. If clothing becomes contaminated, remove immediately and wash. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

Do not contaminate domestic or irrigation water, lakes, ditches, streams or ponds by the cleaning of equipment or the disposal of wastes. Do not apply where run-off or erosion is likely to occur.

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.

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 web site at www.croplife.ca.

PROTECTIVE CLOTHING AND EQUIPMENT

All Application Equipment

During mixing, loading, clean-up or repair workers must wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves as well as goggles or face shield. Applicators must wear a long-sleeved shirt, long pants, shoes plus socks. Gloves are not required to be worn during groundboom applications but are required for mixing/loading, clean-up and repair.

Do not enter or allow workers entry into treated areas for 12 hours following application to all crops.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Do not use or store near heat or open flame.

FIRST AID

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

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

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. Treat symptomatically.

ENVIRONMENTAL HAZARDS

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

Surface runoff

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine-textured, or low in organic matter such as clay).

Avoid applying this product when heavy rain is forecast.

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

Leaching

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

STORAGE

Store in original, tightly-closed container and do not allow water to be introduced into this container. Do not ship or store near food, feed, seed and fertilizers. Store in cool (above 5°C) dry, locked, well-ventilated area without floor drain. If product is frozen, bring to room temperature and agitate before use. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.

DISPOSAL

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

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

inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)

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NET CONTENTS: 1 L – bulk

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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).

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.

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

Momentum is diluted in water and applied by ground application equipment for the control of the following broadleaved weeds:

Canada thistle♦	stork's-bill (suppression) (1-8 leaf)
Cleavers (1-4 whorls)	volunteer flax (1-12 cm)
Kochia (2-8 leaf)	wild buckwheat (1-4 leaf)

♦Season long control, with some regrowth in the fall. Apply from 10 cm to pre-bud stage.

DIRECTIONS FOR USE

Application Rate: 1.1 L/ha

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

Best results are obtained when Momentum is applied to actively growing weeds in the seedling stage and when Canada thistle is between 10 cm and up to but not including the early bud stage. Poor weed control may result under cool or dry conditions.

Spring Wheat, Durum Wheat and Spring Barley

Apply to the crop from 3 leaf to just before flag leaf. Apply Momentum as a ground treatment using enough spray volume to provide adequate spray coverage. Apply a minimum of 100 L/ha total spray volume by ground. Higher spray volumes will provide better coverage and weed control, particularly when the weeds are not actively growing. Maximum 1 application per year.

Spray Preparation

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Momentum and continue to agitate.
4. Add the required amount of tank-mix partner, if needed.
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.

Note: Add only the adjuvant on the tank-partner label and follow tank-mix partner label for order of mixing.

The use of flood jet or hollow cone nozzles is not recommended because of uneven and inadequate spray coverage. Ensure thorough and uniform spray coverage over the entire leaf area of the target weeds.

GENERAL USE PRECAUTIONS

DO NOT APPLY BY AIR.

Sensitive Plants

Do not apply Momentum directly to or otherwise permit it to come into contact with sunflowers, legumes, fruit or vegetable crops, flowers or other desirable broadleaved plants and take precautions to avoid spray mists drifting onto them.

Crop Rotation

Fields previously treated with Momentum can be seeded the following year to wheat, barley, oats and rye (not under-seeded to forage legumes, clover or alfalfa), canola, flax, mustard, field peas, or fields can be summerfallowed. Seed only those crops listed above in the year following treatment.

Note: Do not seed field peas for at least 10 months following treatment. Very dry soil conditions following application can result in a risk of injury to field peas grown in rotation. If severe drought conditions are experienced during the months of June to August inclusive in the year of application, delay seeding field peas an additional 12 months (total 22 months following application). Contact your local Loveland representative or retailer for more information before seeding field peas following drought conditions in the previous year.

Preharvest/Grazing Interval

- Livestock may be grazed on treated crops 3 days following application.
- Do not harvest the treated crop within 60 days after application.

Restricted Entry Interval (REI)

Re-entry is not permitted until 12 hours after application for all agricultural situations.

Stress Conditions

When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (8°C or less), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

To Reduce Spray Drift

- Use coarse sprays at low pressures (200 to 275 kPa).
- Use a minimum of 100 L/ha of spray solution.
- Spray when the wind velocity is 16 km/hr or less.

Equipment Clean-Up

Equipment used to apply Momentum should not be used to apply other pesticides to sensitive crops without thorough cleaning.

TANK-MIXES WITH MOMENTUM FOR BROAD SPECTRUM BROADLEAVED WEED CONTROL IN WHEAT AND BARLEY

Momentum may be tank-mixed with one of the tank-mix partners indicated in the table below for wide spectrum control. All broadleaved weeds listed elsewhere on this label plus the annual weeds listed below for each tank-mix partner will be controlled by the tank-mix. Follow all precautions, directions, and recropping/rotation limitations that appear on both product labels and follow those that are the most restrictive.

Herbicide Tank-Mix Partner	Crops	Tank-Mix partner rate product/ha	Additional Weeds Controlled (Refer to MCPA labels for weed stages)
MCPA Ester 500	spring wheat, durum wheat, barley	840 mL	burdock, cocklebur, field horsetail**, flixweed* (2-4 leaf), lamb's-quarters, mustards (except dog and tansy), plantain**, prickly lettuce, ragweed, shepherd's-purse*, stinkweed*, volunteer sunflower, vetch, wild radish, wild (annual) sunflower
MCPA Ester 600		700 mL	

MCPA Ester 500	spring wheat,	1120 mL	the above listed weeds plus: common groundsel, dandelion♦, redroot pigweed, Russian pigweed, scentless chamomile (2-4 leaf), smartweed, sow-thistle (annual), sowthistle (perennial) ♦♦, tartary buckwheat, volunteer canola, wild buckwheat
MCPA Ester 600	durum wheat, barley	930 mL	

♦ Spring rosettes only

♦♦ Top growth only

TANK-MIXES WITH MOMENTUM OR MOMENTUM TANK MIXED WITH MCPA ESTER FOR BROADLEAVED AND ANNUAL GRASS CONTROL IN WHEAT

Momentum may be tank-mixed with one of the tank-mix partners indicated in the table below for annual grass control. All broadleaved weeds listed elsewhere on this label plus the annual grasses listed below for each tank-mix partner will be controlled by the tank-mix. Follow all precautions, directions, and recropping/rotation limitations that appear on both product labels and follow those that are the most restrictive.

Herbicide Tank-Mix Partner	Crops	Tank-Mix Partner Rate	Adjuvant Rate	Additional Weeds Controlled
Everest Solupak 70DF	Spring wheat, durum wheat	43 g/ha	Refer to Everest 70DF label	Wild oats, green foxtail
Horizon 240EC	Spring wheat, durum wheat	230 mL/ha	Score at 0.8% v/v	Wild oats, green & yellow foxtail, volunteer (tame) oats, barnyard grass, volunteer canary seed
Foothills A		230 mL/ha	Foothills B at 0.8% v/v	
Horizon NG		930 mL/ha	Not required	
Simplicity™	Spring wheat, durum wheat	500 mL/ha	Not required	Wild oats, yellow foxtail, green foxtail (suppression), Japanese brome, downy brome*, barnyard grass, chickweed, hemp nettle, redroot pigweed, smartweed, volunteer canola (excluding Clearfield)
Axial 100EC	Spring wheat, barley	600 mL/ha	Adigor at 700 mL/ha	Wild oats, green foxtail, yellow foxtail, barnyard grass, proso millet, volunteer canary seed, tame oats
Marengo or Liquid Achieve	Spring wheat, durum wheat, barley	500 mL/ha	Turbocharge at 0.5% v/v	Wild oats, green foxtail, yellow foxtail, barnyard grass, Persian darnel, volunteer oats
Wildcat or Puma ¹²⁰ Super	Spring wheat, durum wheat, barley	770 mL/ha	Not required	Wild oats, green foxtail, yellow foxtail, barnyard grass
		385 mL/ha		Green foxtail only
Traxos Herbicide	Spring wheat, durum wheat	1.2 L/ha	Not required	Wild oats, green and yellow foxtail, barnyard grass, volunteer (tame) oats, volunteer canary seed, persian darnel, proso millet

* suppressed in the spring season.

BUFFER ZONES TO PROTECT SENSITIVE TERRESTRIAL AND AQUATIC HABITATS

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.

Buffer Zone Table

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	cereals canaryseed	15	15	15	15	15

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

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

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Momentum is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Momentum and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Momentum or other Group 4 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

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All other products listed are registered trademarks of their respective companies.

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