

2019-2935  
2019-12-16

(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, THE PEACE RIVER REGION AND INTERIOR OF BRITISH COLUMBIA.

AGRICULTURAL

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

ACTIVE INGREDIENT: 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

**Loveland Products Canada Inc.** 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 USING AERIAL APPLICATION EQUIPMENT**

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** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12-hours.

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. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

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](http://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.

## **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 PRECAUTIONS**

This product contains an active ingredient and aromatic petroleum distillates which are 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 non-target terrestrial plants and aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

#### **Surface runoff**

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.

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

(Booklet)

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### **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.

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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 <sup>□</sup>	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)

<sup>□</sup>Season long control, with some regrowth in the fall. Apply from 10 cm to pre-bud stage.

### DIRECTIONS FOR USE

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

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

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.

### Application Rate: 1.1 L/ha Field sprayer application

#### Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

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

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat, durum wheat, winter wheat, spring barley, seedling and established fescue and forage grasses for seed, canary seed, foxtail millet	1	0	1	1	1

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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the

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Canada.ca website.

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 USING AERIAL APPLICATION EQUIPMENT.**

### **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

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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,	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	durum wheat, barley	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, sowthistle (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,	230 mL/ha	Score at 0.8% v/v	Wild oats, green & yellow foxtail, volunteer (tame) oats, barnyard grass,
Foothills A	durum wheat	230 mL/ha	Foothills B at 0.8%	

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Horizon NG		930 mL/ha	v/v Not required	volunteer canary seed
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 <sup>120</sup> Super	Spring wheat,	770 mL/ha	Not required	Wild oats, green foxtail, yellow foxtail, barnyard grass
	durum wheat, barley	385 mL/ha		
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.

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.