

(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](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.

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:

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.

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.

**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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Dorchester, ON N0L 1G5  
For information:1-800-328-4678

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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**

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### **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).

#### **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 ( $8^{\circ}\text{C}$  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 <sup>120</sup> 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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<sup>TM</sup>Simplicity is a trademark of Dow AgroSciences LLC  
All other products listed are registered trademarks of their respective companies.

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# SAFETY DATA SHEET

SDS NUMBER: 30456-19-LPI

SDS REVISIONS: SEC. 1, 2, 16

DATE OF ISSUE: 02/04/2019

**MOMENTUM®**  
SUPERSEDES: 02/10/2014

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 or CHEMTREC 1-800-424-9300**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 PRODUCT IDENTIFIER:

TRADE NAME: MOMENTUM®

### 1.2 RECOMMENDED USE: GROUP 4 HERBICIDE

### 1.3 MANUFACTURED FOR AND DISTRIBUTED BY:

LOVELAND PRODUCTS CANADA, INC.

789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5

### 1.4 24 Hour Emergency Phone: (Chemtrec): 1-800-424-9300 (Toll Free) - Additional Emergency Phone 1-800-561-8273

Loveland Technical Service: 1-800-328-4678

U.S. Coast Guard National Response Center: 1-800-424-8802

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 Label elements

Labeling not required.

Precautionary  
Statement:

May cause eye irritation.

DO NOT get in eyes.

Avoid inhalation of vapour or spray mist and contact with eyes, skin or clothing.

Precautionary  
Statement:

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.

### 2.3 Other hazards

None known.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
Clopyralid (present as Monoethanolamine salt)	57754-85-5	11.30   90 g a.e./L
Fluroxypyr (present as 1-methylheptyl ester)	81406-37-3	12.30   90 g a.e./L

Ingredients not listed are proprietary or non-hazardous

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**4. FIRST AID MEASURES**

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**4.1 Description of First Aid Measures**

General Advice: Get medical attention if symptoms occur.

**Ingestion:** 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 **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

**Inhalation:** 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 treatment advice.

**Eye contact:** 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.

**4.2 Most Important Symptoms and Effects, Acute and Delayed**

Symptoms: May be irritating to the eyes.

**4.3 Immediate Medical Attention and Special Treatment**

Treatment: Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273**

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**NOTES TO PHYSICIAN:** 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.

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**5. FIRE FIGHTING MEASURES**

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**5.1 EXTINGUISHING MEDIA:**

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), foam, water fog, dry chemical, or other extinguishing media suitable for the fire.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

Specific Hazards During Firefighting: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen fluoride, and hydrogen chloride.

**5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

Methods for Clean-Up: Contain or dike spilled material if possible. Should not be released into the environment. Large spills: Dike the spilled material where this is possible. Dig up heavily contaminated soil. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with small quantities of water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.



**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling:

Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapour. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers:

Store in a dry place. Store in original container. Keep container tightly closed. Do not store near food, foodstuffs, drugs or potable water supplies.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:**

Not normally required.

**8.2 EXPOSURE CONTROLS:**

**Engineering Measures**

Avoid breathing mists, vapours, or aerosols. Provide adequate general and local exhaust ventilation. Provide eyewash station.

**OCCUPATIONAL EXPOSURE LIMITS**

Components	List	Type	Value
None listed			

**Individual Protection Measures:**

Eye / Face Protection:

Chemical goggles are recommended.

Skin Protection:

Chemical resistant clothing. Routinely wash work clothing and protective equipment to remove contaminants. The use of polyethylene, ethylvinyl alcohol laminate, styrene/butadiene, Viton®, butyl rubber, or PCV gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection:

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear air supplied respiratory protection. Wear air supplied respiratory protection if exposure concentrations are unknown.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 APPEARANCE:**

Liquid

ODOUR:

Aromatic.

ODOUR THRESHOLD:

No data available.

COLOUR:

Yellow to brown.

pH:

4.77 (1% solution)

MELTING POINT / FREEZING POINT: No data available.

BOILING POINT:

No data available.

FLASH POINT:

> 100 °C (closed cup).

FLAMMABILITY (solid, gas): This product is not flammable.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOUR PRESSURE:

No data available.

SOLUBILITY:

Emulsifies.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available.

DECOMPOSITION TEMPERATURE: No data available.

VISCOSITY:

27.7 cPs @ 20 °C.

SPECIFIC GRAVITY (Water = 1): 1.04 g/ml

DENSITY:

1.04 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



## SAFETY DATA SHEET

SDS NUMBER: 30456-19-LPI

SDS REVISIONS: SEC. 1, 2, 16

DATE OF ISSUE: 02/04/2019

**MOMENTUM®**  
SUPERSEDES: 02/10/2014

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### 10. STABILITY AND REACTIVITY

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#### 10.1 REACTIVITY

Stable

#### 10.2 CHEMICAL STABILITY

Stable under normal conditions. Unstable at elevated temperatures.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

#### 10.4 CONDITIONS TO AVOID

Product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

#### 10.5 INCOMPATIBLE MATERIALS

Avoid contact with strong acids, strong bases, and strong oxidizers.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides. Toxic gases are released during decomposition.

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### 11. TOXICOLOGICAL INFORMATION

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#### 11.1 LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact.

**LC<sub>50</sub> (rat):** 5.39 mg/L (4 HR).

**LD<sub>50</sub> Oral (female rat):** > 5000 mg/kg

**LD<sub>50</sub> Dermal (rat):** > 5000 mg/kg

**Acute Toxicity Estimates:** No data available

**Skin Irritation (rabbit):** Slight irritant

**Eye Irritation (rabbit):** Moderate irritant

**Specific Target Organ Toxicity:** No data available.

**Aspiration:** No data available.

**Skin Sensitization (guinea pig):** Not a sensitizer

**Carcinogenicity:** No data available.

**Germ Cell Mutagenicity:** No data available

**Interactive Effects:** None known.

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### 12. ECOLOGICAL INFORMATION

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#### 12.1 ECOTOXICITY

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.

Fluroxypyr 1-methylheptyl ester is highly toxic to aquatic organisms.

**LC<sub>50</sub>:** Rainbow trout (*Oncorhynchus mykiss*), semi-static test, > 0.225 mg/l, 96 hours

**LC<sub>50</sub>:** Sheepshead minnow (*Cyprinodon variegatus*), flow-through test, > 0.0866 mg/l, 96 hours

**EC<sub>50</sub>:** *Daphnia magna*, semi-static test, > 0.183 mg/l, 48 hours

**ERC<sub>50</sub>:** *Diatom Navicula* sp., static test, 0.24 mg/L, 72 hours

**LD<sub>50</sub> (oral)** *Colinus virginianus* (Bobwhite quail): > 2,000 mg/kg body weight

**LD<sub>50</sub> (dietary)** *Colinus virginianus* (Bobwhite quail): > 2,000 mg/kg diet

**LD<sub>50</sub> (oral and contact)** *Apis mellifera* (bees): > 100 micrograms/bee

**LC<sub>50</sub>** Earthworm (*Lumbricus terrestris*): > 1,000 mg/kg.

Clopyralid Monoethanolamine salt: Material is practically non-toxic to aquatic organisms on an acute basis



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Drift or runoff may adversely affect non-target plants.  
Do not apply directly to water.  
Do not contaminate water when disposing of equipment wash water.  
Do not apply when weather conditions favor drift from target area.

### 12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: Not readily biodegradable. Stability in water (1/2 life): 1.8 – 15.5 h.

### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Moderate for major product components; low for minor components.

### 12.4 MOBILITY IN SOIL

Product expected to be immobile to medium in soil.

### 12.5 OTHER ADVERSE EFFECTS

Assessment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## 13. DISPOSAL CONSIDERATIONS

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### 13.1 WASTE TREATMENT METHODS

Do not reuse containers for any purpose. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food or feed by storage or disposal.

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## 14. TRANSPORT INFORMATION

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### 14.1 LAND TRANSPORT

TDG Shipping Description: NOT REGULATED

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## 15. REGULATORY INFORMATION

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### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

#### NFPA & HMIS Hazard Ratings:

#### NFPA

1	Health	0	Least
1	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

#### HMIS

1	Health
1	Flammability
0	Reactivity
X	PPE

**CEPA – Domestic Substances List (DSL):** All substances in this product are listed on the DSL or not required to be listed

**Hazardous Products Act Information: CPR Compliance:** This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**WHMIS Classification:** Exempt.

**National Fire Code of Canada:** Not applicable.

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## 16. OTHER INFORMATION

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**SDS STATUS:** All sections revised.

**PREPARED BY:** Product Stewardship and Regulatory Affairs

**REVIEWED BY:** Safety, Health and Environment

PCP (Pest Control Products Act) Registration No. 30456

@Momentum is a registered trademark of Loveland Products Canada, Inc.

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

(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](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.

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:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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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.

**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)

# Momentum™

GROUP	4	HERBICIDE
-------	---	-----------

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                  (present as monoethanolamine salt)  
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Emulsifiable Concentrate

REGISTRATION NO. 30456 PEST CONTROL PRODUCTS ACT

**WARNING - EYE IRRITANT**

NET CONTENTS: 1 L – bulk

**Loveland Products Canada Inc.**  
789 Donnybrook Drive  
Dorchester, ON N0L 1G5  
For information:1-800-328-4678

™ Trademark of Viterro Inc.



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### **DISPOSAL**

#### **Recyclable Containers:**

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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).

#### **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 ( $8^{\circ}\text{C}$  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.

<b>Herbicide Tank-Mix Partner</b>	<b>Crops</b>	<b>Tank-Mix partner rate product/ha</b>	<b>Additional Weeds Controlled (Refer to MCPA labels for weed stages)</b>
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 <sup>120</sup> 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:				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*	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.



**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.

<sup>TM</sup>Simplicity is a trademark of Dow AgroSciences LLC  
All other products listed are registered trademarks of their respective companies.

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**EN CAS D'URGENCE RÉSULTANT D'UN DÉVERSEMENT IMPORTANT, D'UN INCENDIE OU D'UNE INTOXICATION IMPLIQUANT CE PRODUIT, TÉLÉPHONER EN TOUT TEMPS AU 1-800-561-8273 OU À CHEMTREC : 1-800-424-9300**

## 1. IDENTIFICATION DU PRODUIT ET RENSEIGNEMENTS SUR LE FOURNISSEUR

### 1.1 Identification du produit

Nom commercial : MOMENTUM®

1.2 Usages recommandés : HERBICIDE DU GROUPE 4

### 1.3 Fabriqué pour et distribué par :

LOVELAND PRODUCTS CANADA, INC.  
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

1.4 Numéro d'urgence 24 h (Chemtrec) : 1-800-424-9300 (Sans frais)

Autre numéro d'urgence : 1-800-561-8273

Services techniques de Loveland : 1-800-328-4678

Centre national d'intervention d'urgence de la Garde côtière américaine : 1-800-424-8802

## 2. IDENTIFICATION DES RISQUES

### 2.1 Classification de la substance ou du mélange

N'est pas une substance ou un mélange dangereux.

### 2.2 Éléments d'étiquetage

Étiquetage non requis.

Conseils de prudence :

Peut causer l'irritation des yeux.

ÉVITER tout contact avec les yeux.

Éviter l'inhalation des vapeurs ou du brouillard de pulvérisation et le contact avec les yeux, la peau et les vêtements.

Conseils de prudence :

Ne pas ingérer le produit. Manipuler avec soin et mélanger le produit dans un contenant fermé uniquement. Utiliser dans un endroit bien ventilé. Bien se laver après avoir manipulé le produit et avant de manger, boire, fumer ou aller à la toilette. Prendre une douche immédiatement après le travail. En cas de contamination des vêtements, les retirer immédiatement et les laver. Conserver et laver tous les vêtements de protection séparément de la lessive ménagère. Laver à l'eau chaude avec du détergent avant réutilisation. Porter des vêtements fraîchement lavés tous les jours.

### 2.3 Autres dangers

Aucun connu

## 3. COMPOSITION, RENSEIGNEMENTS SUR LES INGRÉDIENTS

### 3.2 Mélanges

Ingrédients chimiques	N° de CAS	Concentration [%]
Clopyralide (sous forme de sel de monoéthanolamine)	57754-85-5	11,30   90 g é.a./L
Fluroxypyr (sous forme d'ester de 1-méthylheptyle)	81406-37-3	12,30   90 g é.a./L

Les ingrédients non listés sont brevetés ou sans danger.

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#### 4. PREMIERS SOINS

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##### 4.1 Descriptions des mesures de premiers soins

Recommandation générale : Consulter un médecin en cas de symptômes.

##### En cas d'ingestion :

Appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement à administrer. Si la personne incommodée est capable d'avaler, lui faire boire un verre d'eau à petites gorgées. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne jamais rien administrer par la bouche à une personne inconsciente.

##### En cas de contact avec la peau :

Retirer tous les vêtements contaminés. Bien rincer la peau à grande eau immédiatement pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour des conseils sur le traitement à administrer.

##### En cas d'inhalation :

Déplacer la personne vers une source d'air frais. Si la personne ne respire plus, appeler le 911 ou une ambulance, puis pratiquer la respiration artificielle, de préférence le bouche-à-bouche, si possible. Appeler un centre antipoison ou un médecin pour obtenir plus de conseils sur le traitement à administrer.

##### En cas de contact avec les yeux :

Rincer les yeux à l'eau doucement et lentement pendant 15 à 20 minutes en tenant les paupières ouvertes. Si la personne porte des lentilles cornéennes, les retirer après 5 minutes, puis continuer à rincer. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement à administrer.

##### 4.2 Principaux symptômes et effets, tant aigus que différés

Symptômes : Peut irriter les yeux.

##### 4.3 Soins médicaux immédiats et traitements particuliers éventuels

Traitement :

Maintenir un degré adéquat de ventilation et d'oxygénation du patient. La décision de faire vomir ou non devrait être prise par un médecin. Si on pratique un lavage gastrique, il est recommandé de le faire sous intubation endotrachéale et/ou par tube obturateur œsophagien. Lorsqu'on envisage de vider l'estomac, il faut bien peser le danger d'aspiration pulmonaire par rapport à la toxicité.

**POUR TOUTE URGENCE MÉDICALE CONCERNANT CE PRODUIT, COMPOSER LE 1-800-561-8273.**

Emporter l'étiquette du produit ou le récipient et noter le numéro d'homologation du produit antiparasitaire lorsqu'on cherche à obtenir des soins médicaux.

**REMARQUES POUR LE MÉDECIN :** Ce produit contient des distillats de pétrole. Le vomissement peut causer une pneumonie par aspiration. La décision de faire vomir ou non devrait être prise par un médecin. Si on pratique un lavage gastrique, il est recommandé de le faire sous intubation endotrachéale et/ou par tube obturateur œsophagien. Lorsqu'on envisage de vider l'estomac, il faut bien peser le danger d'aspiration pulmonaire de solvants à base de pétrole par rapport à la toxicité. Il n'existe pas d'antidote spécifique. Utiliser des soins de soutien. Le traitement devrait être fondé sur le jugement du médecin et les réactions du patient. Traiter selon les symptômes.

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#### 5. TECHNIQUES DE LUTTE CONTRE L'INCENDIE

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##### 5.1 Moyens d'extinction

Moyens d'extinction appropriés :

Utiliser du dioxyde de carbone (CO<sub>2</sub>), de la mousse, du brouillard d'eau, de la poudre chimique ou un autre moyen d'extinction approprié pour combattre le feu.

##### 5.2 Dangers particuliers résultant de la substance ou du mélange

Dangers particuliers durant la lutte contre le feu :

Pendant un incendie, la fumée peut contenir, en plus du matériau d'origine, des produits de combustion à composition variée qui peuvent être toxiques et/ou irritants. Les produits de combustion peuvent inclure, sans toutefois s'y limiter : des oxydes de carbone, des oxydes d'azote, du fluorure d'hydrogène et du chlorure d'hydrogène.

##### 5.3 Équipement de protection et précautions particuliers pour les pompiers

Équipement de protection pour les pompiers :

Les personnes combattant un feu important impliquant des produits chimiques devraient porter un appareil respiratoire autonome et un équipement de protection complet. Utiliser de l'eau pulvérisée pour refroidir les contenants exposés au feu. Tenir les gens à l'écart. Isoler la zone d'incendie et en interdire l'accès aux personnes dont la présence est inutile. Utiliser un jet d'eau pour refroidir les contenants exposés au feu et la zone affectée par l'incendie jusqu'à ce que le feu soit éteint et que tout danger de reprise soit écarté. Combattre l'incendie d'un endroit protégé ou à distance sécuritaire. Envisager l'usage d'une lance sur affût télécommandé ou lance monitor, ne nécessitant pas une présence humaine. Évacuer immédiatement tout le personnel de la zone si le son s'échappant de la soupape de sécurité s'amplifie ou si le contenant change de couleur. Les liquides en feu peuvent être éteints en les diluant avec de l'eau. Ne pas arroser de plein fouet avec un jet d'eau car cela pourrait propager le feu. Déplacer le contenant à l'extérieur de la zone de feu si cette manœuvre ne comporte pas de danger. Les liquides en feu peuvent être déplacés en les arrosant à grande eau afin de protéger le personnel et réduire les dommages matériels. Si possible, contenir les eaux ayant servi à combattre le feu car elles pourraient causer des dommages à l'environnement. Consulter les sections «Mesures en cas de déversements accidentels» et «Renseignements écologiques» de cette fiche signalétique.

**6. MESURES EN CAS DE DÉVERSEMENTS ACCIDENTELS**

**6.1 Précautions personnelles, équipement de protection individuelle et mesures d'urgence**

Précautions personnelles : Ne pas toucher aux contenants endommagés ou aux matériaux déversés si on ne porte pas des vêtements de protection appropriés. Rester en amont du vent par rapport au déversement et ne pas se tenir dans les dépressions de terrain et les zones basses. Aérer les endroits clos avant d'y pénétrer.

**6.2 Précautions environnementales**

Précautions environnementales : Empêcher toute fuite ou tout déversement additionnel s'il est possible de le faire sans danger. Éviter de contaminer l'eau.

**6.3 Méthodes et matériaux de confinement et de nettoyage**

Méthodes de nettoyage : Contenir et endiguer le produit déversé si possible. Éviter que celui-ci ne soit libéré dans l'environnement.  
 Déversements majeurs : Endiguer le produit déversé lorsque possible. Excaver le sol fortement contaminé. Couvrir d'une feuille de plastique pour prévenir sa dissémination. Absorber avec de la vermiculite, du sable sec ou de la terre et placer dans des contenants appropriés. Après récupération du produit déversé, laver la zone touchée avec de petites quantités d'eau. Déversements mineurs : Absorber le produit déversé avec une matière absorbante (p. ex. tissu, laine). Bien nettoyer la surface pour éliminer toute contamination résiduelle. Ne jamais remettre les produits déversés dans les contenants d'origine pour réutilisation. Pour l'élimination des déchets, consulter la section 13 de cette fiche signalétique.

**7. MANIPULATION ET ENTREPOSAGE**

**7.1 Précautions à prendre pour une manipulation sécuritaire**

Conseils pour une manipulation sécuritaire : Tenir hors de portée des enfants. Éviter tout contact avec les yeux, la peau et les vêtements. Ne pas respirer le brouillard ou les vapeurs. Porter un équipement de protection individuelle. Ne pas utiliser dans les endroits où la ventilation est insuffisante. Éviter l'exposition prolongée. Bien se laver après avoir manipulé le produit. Ne pas jeter dans les égouts. Manipuler et ouvrir les contenants avec prudence. Toujours faire preuve de prudence pendant la manipulation et l'entreposage. Se laver avant de manger, boire et/ou fumer.

**7.2 Conditions pour un entreposage sécuritaire**

Exigences pour les lieux de stockage et les contenants :  
 Conserver dans un endroit sec. Conserver dans les contenants d'origine hermétiquement fermés. Ne pas entreposer près des aliments de consommation humaine, des denrées alimentaires, des médicaments et des réserves d'eau potable.

**8. EXPOSITION/PROTECTION PERSONNELLE**

**8.1 Paramètres de contrôle**

Non requis normalement.

**8.2 Contrôle de l'exposition**

**LIMITES D'EXPOSITION PROFESSIONNELLE**

Ingrédients	Liste	Type	Valeur
Aucun ingrédient inscrit			

**Mesures de protection individuelle :**

Protection des yeux et du visage : Le port de lunettes de protection contre les produits chimiques est recommandé.  
 Protection de la peau : Le port de vêtements résistants aux produits chimiques est recommandé. Laver régulièrement les vêtements de travail et l'équipement de protection individuelle pour éliminer les contaminants. Le port de gants de polyéthylène, à base d'alcool vinylique laminé, de styrène-butadiène, Viton®, de caoutchouc butyle ou de PCV est recommandé. Rester conscient que le liquide peut pénétrer les gants. Il est recommandé de les changer régulièrement.  
 Protection respiratoire : En cas de ventilation insuffisante ou de risque d'inhalation des vapeurs ou du brouillard, porter un appareil respiratoire approprié. Porter une protection respiratoire durant les opérations de pulvérisation ou de brumisation. Porter un appareil de protection respiratoire à adduction d'air. Porter un appareil de protection respiratoire à adduction d'air si les concentrations d'exposition sont inconnues.

**9. PROPRIÉTÉS PHYSIQUES ET CHIMIQUES**

**9.1 APPARENCE :** Liquide.  
**ODEUR :** Aromatique.  
**SEUIL OLFACTIF :** Aucune donnée disponible.  
**COULEUR :** Jaunâtre à brunâtre.  
**pH :** 4,77 (Solution à 1 %).  
**POINT DE FUSION / POINT DE CONGÉLATION :** Aucune donnée disponible.  
**POINT D'ÉBULLITION :** Aucune donnée disponible.  
**POINT D'ÉCLAIR :** > 100 °C (coupelle fermée)

INFLAMMABILITÉ (solide, gaz) : Ce produit n'est pas inflammable.  
 LIMITES SUPÉRIEURE ET INFÉRIEURE D'INFLAMMABILITÉ OU D'EXPLOSION : Aucune donnée disponible.  
 TENSION DE VAPEUR : Aucune donnée disponible.  
 SOLUBILITÉ : Émulsifiant  
 COEFFICIENT DE PARTAGE, n-OCTANE/EAU : Aucune donnée disponible  
 POINT D'AUTO-INFLAMMATION : Aucune donnée disponible.  
 TEMPÉRATURE DE DÉCOMPOSITION : Aucune donnée disponible  
 VISCOSITÉ : 27,7 cP @ 20 °C  
 POIDS SPÉCIFIQUE (EAU = 1) : 1,04 g/mL  
 MASSE VOLUMÉTRIQUE APPARENTE : 1,04 kg/L

Remarque : Ces données physiques constituent des valeurs typiques basées sur le matériel mis à l'essai, mais peuvent varier d'un échantillon à l'autre. Les valeurs typiques ne doivent pas être interprétées comme étant une analyse garantie d'un lot particulier ou les caractéristiques du produit.

## 10. STABILITÉ ET RÉACTIVITÉ

### 10.1 Réactivité

Stable.

### 10.2 Stabilité chimique

Stable dans les conditions normales. Instable à des températures élevées.

### 10.3 Possibilité de réactions dangereuses

Aucune réaction dans les conditions normales. Ne se polymérise pas.

### 10.4 Conditions à éviter

Le produit peut se décomposer à des températures élevées. La formation de gaz durant la décomposition peut générer de la pression dans les systèmes en circuit fermé.

### 10.5 Substances incompatibles

Éviter le contact avec les acides forts, les bases fortes et les oxydants forts.

### 10.6 Produits de décomposition dangereux

Les produits de décomposition varieront selon la température, l'apport d'air et la présence d'autres matériaux. Les produits de décomposition peuvent inclure, sans toutefois s'y limiter, des oxydes d'azote, du fluorure d'hydrogène et du chlorure d'hydrogène. Des gaz toxiques seront libérés pendant la décomposition du produit.

## 11. RENSEIGNEMENTS TOXICOLOGIQUES

### 11.1 Voies d'exposition probables

Contact avec la peau. Contact avec les yeux.

CL<sub>50</sub> (rat) : 5,39 mg/L (4 h).

Toxicité orale aiguë DL<sub>50</sub> (rat femelle) : > 5000 mg/kg.

Toxicité cutanée DL<sub>50</sub> (rat) : > 5000 mg/kg.

Estimations de toxicité aiguë : Aucune donnée disponible.

Irritation cutanée (lapin) : Irritant léger.

Irritation des yeux (lapin) : Irritant modéré.

Toxicité spécifique à un organe cible : Aucune donnée disponible.

Aspiration : Aucune donnée disponible.

Sensibilisation cutanée (cobaye) : N'est pas un sensibilisant.

Potentiel carcinogène : Aucune donnée disponible.

Mutagenicité des cellules germinales : Aucune donnée disponible.

Effets interactifs : Aucun connu.

## 12. RENSEIGNEMENTS ÉCOLOGIQUES

### 12.1 Écotoxicité

Ce produit contient un distillat du pétrole qui est modérément à très toxique pour les organismes aquatiques. Éviter de contaminer les systèmes aquatiques durant l'application. Ne pas contaminer ces systèmes durant l'application, l'élimination des résidus ou le lavage de l'équipement. Toxique pour les organismes aquatiques et les plantes terrestres non visées par le traitement.

**Fluroxypyr (sous forme d'ester de 1-méthylheptyle) :** Ce produit est extrêmement toxique pour les organismes aquatiques.

CL <sub>50</sub> :	Trite arc-en-ciel ( <i>Oncorhynchus mykiss</i> ), essai semi-statique	> 0,225 mg/L, 96 heures
CL <sub>50</sub> :	Mené tête de mouton ( <i>Cyprinodon variegatus</i> ), essai avec renouvellement continu	> 0,0866 mg/L, 96 heures
CE <sub>50</sub> :	Daphnia magna, essai semi-statique	> 0,183 mg/L, 48 heures
CE <sub>r50</sub> :	Diatomée navicula sp., essai statique	0,24 mg/L, 72 heures
DL <sub>50</sub> (voie orale) :	Colinus virginianus (colin de Virginie)	> 2000 mg/kg de poids vif
DL <sub>50</sub> (voie alimentaire) :	Colinus virginianus (colin de Virginie)	> 2000 mg/kg par voie alimentaire
DL <sub>50</sub> (voie orale et par contact) :	Apis mellifera (abeille domestique)	> 100 µg/abeille
CL <sub>50</sub> :	Ver de terre ( <i>Lumbricus terrestris</i> )	> 1000 mg/kg

**Sel de monoéthanolamine du clopyralide :** Ce produit est pratiquement non toxique pour les organismes aquatiques par exposition aiguë.

La dérive et le ruissellement peuvent avoir des effets indésirables sur les plantes non visées par le traitement.  
 Ne pas appliquer directement sur aucun plan d'eau.  
 Ne pas contaminer l'eau lors de l'élimination des eaux de lavage de l'équipement.  
 Ne pas appliquer quand les conditions météorologiques favorisent la dérive hors de la zone visée par le traitement.

**12.2 Persistance et dégradabilité**

Biodégradabilité : Ce produit n'est pas facilement biodégradable. Stabilité dans l'eau (demi-vie) : 1,8 – 15,5 h.

**12.3 Potentiel de bioaccumulation**

Bioaccumulation : Modérée pour les ingrédients principaux du produit; faible pour les autres ingrédients.

**12.4 Mobilité dans le sol**

Ce produit devrait être immobile dans le sol.

**12.5 Autres effets indésirables**

Évaluation : Un risque environnemental ne peut pas être exclu si le produit est manipulé ou éliminé de manière non professionnelle.

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**13. ÉLIMINATION**


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**13.1 Méthodes de traitement des déchets**

Ne pas réutiliser les contenants à d'autres fins. Les contenants sont recyclables et doivent être éliminés à un point de collecte des contenants. Communiquer avec son détaillant/distributeur local pour connaître l'emplacement du site de collecte le plus proche. Avant d'emporter les contenants au site de collecte, faire un triple rinçage des contenants vides, ou les rincer avec de l'eau sous pression, puis ajouter les rinçures dans la cuve du pulvérisateur. Rendre les contenants impropres à toute nouvelle utilisation. S'il n'y a pas de site de collecte dans la région, éliminer les contenants conformément aux exigences provinciales. Pour obtenir des renseignements sur l'élimination des produits non utilisés ou superflus, communiquer avec le fabricant ou l'organisme de réglementation provincial. Ne pas contaminer l'eau, les aliments pour la consommation humaine et la nourriture pour les animaux lors de l'entreposage ou de l'élimination.

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**14. RENSEIGNEMENTS RELATIFS AU TRANSPORT**


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**14.1 Transport terrestre**

Description TMD/DOT : NON RÉGLEMENTÉ

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**15. RÉGLEMENTATION**


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**15.1 Réglementation relative à la sécurité, à la santé et à l'environnement**

Classement des dangers selon la NFPA et la HMIS:

NFPA		HMIS			
1	Santé	0	Moindre	1	Santé
1	Inflammabilité	1	Légère	1	Inflammabilité
0	Instabilité	2	Modérée	0	Réactivité
		3	Élevée	X	ÉPI
		4	Grave		

**Liste intérieure des substances (LIS) selon la LCPE :** Toutes les substances dans ce produit sont répertoriées dans la LIS ou ne nécessitent pas d'être répertoriées.

**Information concernant la Loi sur les produits dangereux : Conformité au RPC :** Ce produit a été classé conformément aux critères de risque du Règlement sur les produits contrôlés (RPC) canadien et cette fiche signalétique contient toutes les informations requises par le RPC.

**Classification SIMDUT :** Ce produit est exempté des exigences du SIMDUT.

**Code national de prévention des incendies :** Sans objet.

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**16. AUTRES INFORMATIONS**


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**STATUT DE LA FICHE SIGNALÉTIQUE :** Révision de toutes les sections.

**PRÉPARÉ PAR :** Service de l'intendance et des affaires réglementaires

**RÉVISÉ PAR :** Service de santé environnementale et de sécurité

N° D'HOMOLOGATION en vertu de la *LOI SUR LES PRODUITS ANTIPARASITAIRES* : 30456

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