

GROUP	1	HERBICIDE
-------	----------	-----------

HORIZON® NG Herbicide

COMMERCIAL - AGRICULTURAL

Emulsifiable Concentrate

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA ONLY

A post emergence herbicide for control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian dandelion and volunteer canary seed in spring wheat and durum wheat.

ACTIVE INGREDIENT:

Clodinafop-propargyl..... 60 g/L

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

CAUTION – SKIN IRRITANT
Warning, contains the allergen soy

REGISTRATION NO.: **29089**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to Bulk**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 NOTICE TO USER

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

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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

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

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

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

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN.

May irritate eyes and skin. Do not wear contact lenses when using.

DO NOT get in eyes or on skin. Avoid contact with clothing.

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.

Restricted Entry Interval (REI): Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

If this pest control product is to be used on a commodity that may be exported to other countries

in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

If mixing and loading more than 15 kg a.i. in a day, workers must use a closed mixing/loading system.

During mixing, loading, clean-up, repair and when applying by groundboom, workers must wear coveralls over long-sleeved shirt and long pants, shoes and socks, goggles, and chemical-resistant gloves. When applying by aerial application, pilots must wear long-sleeved shirt and long pants.

Wash gloves thoroughly with soap and water before removing them during any operation.

Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

Remove contaminated clothing immediately after use. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Store and wash contaminated clothing separately from household laundry before reuse.

Handle and apply only as recommended on this label.

Do not eat, drink or smoke while mixing, loading or during application.

6.0 ENVIRONMENTAL PRECAUTIONS

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

The residues of this product demonstrate the properties and characteristics associated with chemicals detected in ground water. The use of clodinafop-propargyl products in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), or estuarine/marine habitats.

Avoid contamination of aquatic systems during application. Do not contaminate these systems

through direct application, disposal of waste or cleaning of equipment.

7.0 STORAGE

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

8.0 DISPOSAL

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.

For 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.

For 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 use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

GROUP	1	HERBICIDE
-------	----------	-----------

HORIZON® NG Herbicide

COMMERCIAL - AGRICULTURAL

Emulsifiable Concentrate

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA ONLY

A post emergence herbicide for control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian dandelion and volunteer canary seed in spring wheat and durum wheat.

ACTIVE INGREDIENT:

Clodinafop-propargyl..... 60 g/L

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

CAUTION – SKIN IRRITANT
Warning, contains the allergen soy

REGISTRATION NO.: **29089**
PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Table of Contents

	<u>Section Number</u>
NOTICE TO USER	1.0
FIRST AID	2.0
TOXICOLOGICAL INFORMATION	3.0
PRECAUTIONS.....	4.0
PERSONAL PROTECTIVE EQUIPMENT (PPE)	5.0
ENVIRONMENTAL PRECAUTIONS	6.0
STORAGE	7.0
DISPOSAL	8.0
PRODUCT INFORMATION	9.0
DIRECTIONS FOR USE	10.0
General Information	10.1
Ground Application	10.2
General Information.....	10.2.1
Mixing Instructions	10.2.2
Spraying Instructions	10.2.3
Equipment Clean-Up.....	10.2.4
Aerial Application	10.3
General Information.....	10.3.1
Use Precautions.....	10.3.2
Operator Precautions	10.3.3
Pilot Precautions.....	10.3.4
Product Specific Precautions	10.3.5
Mixing Instructions	10.3.6
Spraying Instructions	10.3.7
Equipment Clean-Up.....	10.3.8
Buffer Zones	10.4
CROP USE DIRECTIONS	11.0
Spring Wheat and Durum Wheat	11.1
MINOR USES	12.0
Directions for Use in the Okanagan and Creston Flats Regions of BC	12.1
RESISTANCE MANAGEMENT RECOMMENDATIONS	13.0

1.0 NOTICE TO USER

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

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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

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

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

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

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN.

May irritate eyes and skin. Do not wear contact lenses when using.

DO NOT get in eyes or on skin. Avoid contact with clothing.

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.

Restricted Entry Interval (REI): Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

If this pest control product is to be used on a commodity that may be exported to other countries

in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

If mixing and loading more than 15 kg a.i. in a day, workers must use a closed mixing/loading system.

During mixing, loading, clean-up, repair and when applying by groundboom, workers must wear coveralls over long-sleeved shirt and long pants, shoes and socks, goggles, and chemical-resistant gloves. When applying by aerial application, pilots must wear long-sleeved shirt and long pants.

Wash gloves thoroughly with soap and water before removing them during any operation.

Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

Remove contaminated clothing immediately after use. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Store and wash contaminated clothing separately from household laundry before reuse.

Handle and apply only as recommended on this label.

Do not eat, drink or smoke while mixing, loading or during application.

6.0 ENVIRONMENTAL PRECAUTIONS

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

The residues of this product demonstrate the properties and characteristics associated with chemicals detected in ground water. The use of clodinafop-propargyl products in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), or estuarine/marine habitats.

Avoid contamination of aquatic systems during application. Do not contaminate these systems

through direct application, disposal of waste or cleaning of equipment.

7.0 STORAGE

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

8.0 DISPOSAL

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.

For 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.

For 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 use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

HORIZON® NG Herbicide is a systemic, post-emergence herbicide with a built in adjuvant system for the selective control of wild oats, volunteer (tame) oats, green foxtail, yellow foxtail, barnyard grass, Persian darnel and volunteer canary seed in all types of spring wheat and Durum wheat. Do not use HORIZON NG Herbicide on barley, as crop injury will occur. Do not apply this product using aerial application equipment except under conditions specified on this label.

HORIZON NG Herbicide is absorbed by the leaves and is rapidly translocated to the growing points of leaves and stems. Thorough coverage of the plants is essential for consistent control. Actively growing susceptible grasses stop growing within 48 hours of treatment. Depending on species, growing conditions and crop competition, leaves and growing points turn yellow within one to three weeks after application. Further colour changes and loss of vigour will be observed, followed by a browning and complete control three to five weeks after application.

Although HORIZON NG Herbicide does not control broadleaf weeds, HORIZON NG Herbicide can be tank mixed with a wide range of broadleaf herbicides to provide broad spectrum weed control in wheat. It can also be tank mixed with Decis® Flowable Insecticide and MATADOR® 120EC Insecticide to control grassy weeds and insects and with TILT® 250E Fungicide to control grassy weeds and cereal leaf diseases. See section entitled “TANK MIXES OF HORIZON NG HERBICIDE WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES” and refer to the appropriate Tank Mix section for ground and aerial application.

10.0 DIRECTIONS FOR USE

10.1 General Information

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.

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.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

10.2 Ground Application

10.2.1 General Information

Field spray 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 and Biological Engineers (**ASABE** S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

10.2.2 Mixing Instructions

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
2. If a broadleaf herbicide, insecticide or fungicide is to be used, add the product **FIRST** prior to adding HORIZON NG Herbicide and agitate for 2-3 minutes.
3. Add correct amount of HORIZON NG Herbicide.
4. Agitate for 3 – 5 minutes before adding remainder of water and then maintain constant agitation.
5. After any break in spraying operations, agitate thoroughly before spraying again.
6. **Use the spray suspension as soon as it is prepared.**
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

10.2.3 Spraying Instructions

1. HORIZON NG can be applied by ground or air. For aerial application instructions, refer to the section entitled “SPRAYING INSTRUCTIONS - AERIAL APPLICATION” which follows this section.
2. Water Volume: 50 to 100 litres per hectare when applied alone and a minimum of 100 L/ha when tank mixed with broadleaf herbicides.
3. Spray Nozzles: 80° or 110° flat fan stainless steel nozzles are recommended for optimal spray coverage. Application of the spray mixture at a 45° angle in the direction of travel will result in improved spray coverage. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
4. Pressure: 275-310 kPa.
5. Apply uniformly at 6-8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an over application.
6. Do not contaminate streams, rivers, lakes, ponds, wetlands, sloughs, irrigation water, vegetated ditch banks, and water used by livestock or for domestic purposes..

10.2.4 Equipment Clean-Up

Before Spraying:

- Prior to using HORIZON NG, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow HORIZON NG residue to dry within the spray tank
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation,

- wells or other water sources.
2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.3 Aerial Application

10.3.1 General Information

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

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

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

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

10.3.2 Use Precautions

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

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.3.3 Operator Precautions

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

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

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles

or a face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

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

10.3.4 Pilot Precautions

Read and understand the entire label before using this product. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. Ensure uniform application and a uniform spray with minimum potential for drift. To avoid streaked, uneven or overlapped application, use appropriate marking technology. GPS based marking is preferred.

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

10.3.5 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in at least 30 litres of water per hectare.

Avoid spraying when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

DO NOT overspray non-target terrestrial or aquatic habitats. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands), estuaries or marine habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

10.3.6 Mixing Instructions

1. Fill the mixing tank 1/2 full with clean water. Start gentle agitation.
2. If a broadleaf herbicide is to be used, add the product **FIRST** prior to adding HORIZON NG Herbicide and agitate for 2-3 minutes.
3. Add correct amount of HORIZON NG Herbicide.
4. Agitate for 3 – 5 minutes before adding remainder of water and then maintain constant agitation.
5. Fill aircraft spray tank and maintain gentle agitation while spraying.
6. After any break in spraying operations, agitate thoroughly before spraying again. Do not

let contents stand without agitation.

7. **Use the spray suspension as soon as it is prepared.**
8. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

10.3.7 Spraying Instructions

1. HORIZON NG Herbicide can be applied by ground or by air. For ground application instructions, refer to the section entitled "SPRAYING INSTRUCTIONS - GROUND APPLICATION" which precedes this section.
2. Water Volume - Aerial application: Minimum of 30 litres per hectare when applied alone or when tank mixed with Buctril® M.
3. When applying by aircraft, applicators are required to use spray nozzles or nozzle configurations and spraying pressures which will provide a COARSE droplet size distribution, with a volume medium diameter (VMD) greater than 350 microns.
4. Aerial drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hr.
5. For the protection of non-target habitats, overspray or drift to sensitive habitats must be avoided Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.
6. When a tank mixture is used, consult the label of the tank mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.
7. Ensure uniform application. To avoid uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

10.3.8 Equipment Clean-Up

Thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with clean water. Do not clean the sprayer near desirable vegetation, wells, or other water sources.
2. Remove the nozzles and screens and wash separately.
3. Dispose of all rinsings in accordance with provincial regulations.
4. If a broadleaf tank mix partner is used, always check tank mix partner label for any additional clean up procedures.

10.4 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, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Spring and Durum Wheat	1	0	1
Aerial	Spring and Fixed Wing	1	0	20

	Durum Wheat (55.2 – 70.2 g a.i./ha)	Rotary Wing	1	0	20
--	---	-------------	---	---	----

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 in the Pesticides portion of Canada.ca.

11.0 CROP USE DIRECTIONS

11.1 Spring Wheat and Durum Wheat

HORIZON NG Herbicide can be used on all varieties of spring wheat and Durum wheat. Observe minimum interval to harvest of 60 days after treatment.

Do not apply on barley or any crop other than spring wheat or Durum wheat, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or Durum wheat. A 30-day plant-back interval must be observed for all unlabelled crops.

Do not treat wheat underseeded to forages. Observe a minimum pre-harvest interval of 60 days after treatment for grain and straw and of 30 days after treatment for hay. Observe a minimum of seven (7) days before grazing livestock on treated crops.

For use directions specific to application by air, please refer to sections on aerial application. For aerial application precautions, please refer to the precautions section.

WEEDS CONTROLLED: Wild Oats, Volunteer (Tame) Oats, Green Foxtail, Yellow Foxtail, Barnyard grass, Persian darnel and Volunteer Canary Seed

TIMING OF APPLICATION

TIMING	GROWTH STAGE	ADDITIONAL REMARKS
WILD OATS	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
VOLUNTEER (TAME) OATS	3 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
GREEN FOXTAIL AND YELLOW FOXTAIL (wild millet, pigeon grass)	1 to 5 leaf stage on main stem	For optimum control apply prior to emergence of the 3 rd tiller and while foxtail is actively growing
BARNYARD GRASS	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while barnyard grass is actively growing
PERSIAN DARNEL	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while Persian darnel is actively growing
VOLUNTEER CANARY SEED	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
SPRING WHEAT AND DURUM WHEAT	Prior to emergence of 4th tiller	When tank mixing with a broadleaf herbicide, insecticide or fungicide, always refer to the label of the broadleaf partner, insecticide partner or fungicide partner prior to use.

- For optimum results, apply HORIZON NG Herbicide to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of HORIZON NG Herbicide will not be controlled.
- Weed control following application of HORIZON NG Herbicide alone, or in combination with broadleaf weed herbicides, can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding or prolonged cool temperatures. Grass escapes or re-tillering may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of HORIZON NG Herbicide is delayed until the stress conditions have ended and weeds are once again actively growing.
- HORIZON NG Herbicide alone can be used 30 minutes before rainfall.
- Do not apply to a crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

RATE OF USE FOR GROUND APPLICATION:

Apply the recommended rate of HORIZON NG Herbicide in a minimum of 50 to 100 L of water per hectare.

<p>To Control:</p> <p>WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED</p>	<p>To Control:</p> <p>WILD OATS VOLUNTEER (TAME) OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER CANARY SEED PERSIAN DARNEL</p>
<p>Apply:</p> <p>930 mL/ha of HORIZON NG Herbicide</p>	<p>Apply:</p> <p>1.17 L/ha of HORIZON NG Herbicide</p>

NOTE: HORIZON NG contains a built in adjuvant system. Do Not add SCORE® Adjuvant, or any other adjuvant to the HORIZON NG Herbicide mixture.

RATE OF USE FOR AERIAL APPLICATION:

Apply the recommended rate of HORIZON NG Herbicide in a minimum of 30 L of water per hectare according to the following table:

<p>To Control:</p> <p>WILD OATS</p>	<p>To Control:</p> <p>WILD OATS GREEN FOXTAIL YELLOW FOXTAIL PERSIAN DARNEL</p>
<p>Apply:</p> <p>930 mL/ha of HORIZON NG Herbicide</p>	<p>Apply:</p> <p>1.17 L/ha of HORIZON NG Herbicide</p>

NOTE: HORIZON NG contains a built in adjuvant system. Do Not add SCORE Adjuvant, or any other adjuvant to the HORIZON NG Herbicide mixture.

TANK MIXES OF HORIZON NG HERBICIDE WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES – GROUND APPLICATION:

CROP: SPRING and DURUM WHEAT

TANK MIXES WITH BROADLEAF WEED HERBICIDES, INSECTICIDES AND FUNGICIDES IN SPRING WHEAT AND DURUM WHEAT:

For broad spectrum control of wild oats, green foxtail, barnyard grass, Persian darnel and broadleaf weeds, HORIZON NG Herbicide can be tank mixed with broadleaf herbicides as described in the following tables. HORIZON NG Herbicide can also be tank mixed with Decis Flowable Insecticide and MATADOR 120EC Insecticide for control of insects listed on the Decis Flowable Insecticide and MATADOR 120EC Insecticide label and with TILT 250E Fungicide for control of diseases listed on the TILT 250E Fungicide label, in addition to grassy weeds. Consult the label of the tank mix partner for a list of broadleaf weeds, insects or diseases controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific

weeds/insects/diseases, directions for use and precautions and follow the more restrictive label. When tank mixing always add the broadleaf herbicide(s), insecticide or fungicide to the spray tank first; followed by HORIZON NG Herbicide added last. For the appropriate rate of HORIZON NG Herbicide, refer to the 'Rate of Use' section of the label.

Tank mixes for broad spectrum control of wild oats, green foxtail, broadleaf weeds, insects and diseases:

Tank mix Partner	Product Rates	Crop Stage¹
Dyvel [®] Herbicide Agricultural	1.25 L/ha	2 to 5 leaf
Buctril M	1.0 L/ha	2 leaf to flag leaf
Estaprop [®] XT Liquid Herbicide	1.2 L/ha	4 leaf to early flag leaf (shot blade)
IPCO Dichlorprop-DX [®] Herbicide	1.2 L/ha	4 leaf to early flag leaf (shot blade)
Lontrel [™] 360 Herbicide	0.42 - 0.84 L/ha	3 leaf to flag leaf
Lontrel XC Herbicide	0.25 - 0.50 L/ha	3 leaf to flag leaf
Lontrel 360 Herbicide + MCPA Ester (assume 500 series)	280 - 420 mL/ha + 1.1 L/ha	3 leaf to flag leaf
Curtail [®] M Herbicide	1.5 - 2.0 L/ha	3 leaf to just before flag leaf
Prestige [™] XC Herbicide Tank Mix ⁷	310 - 410 mL/ha of Prestige XC A + 1.5 - 2.0 L/ha of Prestige XC B	3 leaf to flag leaf
Prestige XL Herbicide	1.75 - 2.34 L/ha	
Approve [®] Herbicide	1.24 L/ha	4 leaf to flag leaf
Thumper [®] Emulsifiable Selective Weedkiller	1.0 L/ha	4 leaf to flag leaf
2,4-D Amine (assume 600 series) ³	700 - 920 mL/ha	3 leaf to flag leaf
2,4-D Amine (assume 500 series) ³	840 mL - 1.1 L/ha	3 leaf to flag leaf
MCPA Amine (assume 500 series) ³	840 mL - 1.1 L/ha	3 leaf to flag leaf
MCPA Amine (assume 600 series) ³	700 - 920 mL/ha	3 leaf to flag leaf
MCPA Ester (assume 500 series)	840 mL - 1.1 L/ha	3 leaf to flag leaf
MCPA Ester (assume 600 series)	700 - 920 mL/ha	3 leaf to flag leaf
IPCO MCPA Sodium Salt 300 Liquid Herbicide	1.2 - 2.7 L/ha ⁴	3 leaf to flag leaf
Koril [®] 235 Liquid Herbicide	1.2 L/ha	2 leaf to flag leaf
Pardner [®] Herbicide	1.0 L/ha	2 leaf to flag leaf
Ally [®] Herbicide ²	7.5 g/ha	2 leaf to flag leaf
Attain [™] XC A Herbicide + Attain XC B Herbicide ⁷	0.21 - 0.41 L/ha + 0.85 - 1.28 L/ha	4 leaf to flag leaf
Decis Flowable Insecticide	80 - 120 mL/ha	Prior to emergence of 4 th tiller
TILT 250E Fungicide	250 - 500 mL/ha	Prior to emergence of 4 th tiller
Mecoprop-P ⁵	5.5 - 7.0 L/ha	3 leaf to just before flag leaf
MATADOR 120EC Insecticide	63 - 83 mL/ha	Prior to emergence of 4 th tiller
Mextrol [®] 450 Liquid Herbicide	1.25 L/ha	2 leaf to flag leaf
Florasulam Suspension Concentrate Herbicide	100 mL/ha	2 to 4 leaf
Refine [®] SG Herbicide + Accord [®] DF Herbicide ²	30 g/ha + 67 g/ha	2 leaf to flag leaf
Refine SG Toss-N-Go Herbicide ²	30 g/ha	2 leaf to flag leaf

Tank mix Partner	Product Rates	Crop Stage ¹
DYCLEER® Agricultural Herbicide ⁸ + Starane™ Herbicide	0.11 - 0.16 L/ha + 0.39 - 0.58 L/ha	2 to 5 leaf
PULSAR™ Herbicide + MCPA Ester (500 Series)	0.607 - 0.917 L/ha + 0.7 L/ha	2 to 5 leaf
PULSAR Herbicide	0.607 - 0.917 L/ha	2 to 5 leaf
¹ Always consult the label of the broadleaf herbicide, insecticide or fungicide prior to use.		
² Addition of surfactants is not required.		
³ A reduction in control of green foxtail and wild oats may be observed when HORIZON NG Herbicide is tank mixed with 2,4-D Amine and MCPA Amine.		
⁴ Rates above 2.0 L/ha may cause crop injury		
⁵ Tank mix with Mecoprop provides suppression of Canada Thistle (top growth control)		
⁶ When tank mixing with Accord DF Herbicide, do not graze treated crops or cut for hay within 77 days of application.		
⁷ Refer to broadleaf tank mix label for list of weeds controlled at low and high use rates.		
⁸ When tank mixing with DYCLEER + Starane, use SCORE Adjuvant.		

For the control of barnyard grass and broadleaf weeds, in addition to wild oats and green foxtail, use one of the following tank mixes:

Tank Mix Partner	Product Rates	Crop Stage ¹
Buctril M	1.0 L/ha	2 leaf to flag leaf
Estaprop XT Liquid Herbicide	1.2 L/ha	4 leaf to early flag leaf (shot blade)
¹ Always consult the label of the broadleaf herbicide prior to use.		

For control of Persian darnel* and broadleaf weeds, in addition to wild oats, green foxtail and barnyard grass, use the following tank mix:

Tank Mix Partner	Product Rates	Crop Stage ¹
Buctril M	1.0 L/ha	2 leaf to flag leaf
¹ Always consult the label of the broadleaf herbicide prior to use.		

* Use the higher rate of HORIZON NG Herbicide Tank Mix to control Persian darnel.
Refer to the "Rate of Use" section of the label.

Temporary crop injury may occur with tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture level or extreme temperatures.

TANK MIXES OF HORIZON NG HERBICIDE WITH BROADLEAF WEED HERBICIDES - AERIAL APPLICATION:

CROP: SPRING WHEAT and DURUM WHEAT

For broad spectrum control of wild oats, green foxtail and broadleaf weeds, HORIZON NG Herbicide can be tank mixed with Buctril M. Consult the label of the tank mix partner for a list of broadleaf weeds controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific weeds, directions for use and precautions and follow the more restrictive label. Use in a minimum of 30 L of water per hectare.

Tank mixes of HORIZON NG Herbicide with broadleaf weed herbicides - Aerial application: When tank mixing always add the broadleaf herbicide to the spray tank first; followed by HORIZON NG Herbicide. For the appropriate rate of HORIZON NG Herbicide refer to the 'Rate of Use For Aerial Application' section of the label.		
Tank mix Partner	Product Rates	Crop Stage ¹
Buctril M	1.0 L/ha	2 leaf to flag leaf

¹ Always consult the label of the broadleaf partner prior to use.

Temporary crop injury may occur with tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture level or extreme temperatures.

12.0 MINOR USES

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

12.1 Directions for Use in the Okanagan and Creston Flats Region of BC

HORIZON NG Herbicide can be used for the control of wild oats, green foxtail and yellow foxtail in spring wheat and Durum wheat in the Interior of British Columbia. For information on crop and weed stages, rates of application, mixing and spraying instructions and precautions see the appropriate sections elsewhere on this label.

13.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, HORIZON NG Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to HORIZON NG Herbicide and other Group 1 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 HORIZON NG Herbicide or other Group 1 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as

the more resistance-prone partner.

Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

DYCLEER®, HORIZON®, MATADOR®, PULSAR™, and TILT® are trademarks of a Syngenta Group Company. Accord®, Ally®, Approve®, Attain™, Buctril®, Curtail®, Decis®, Dichlorprop-DX®, Dyvel®, Estaprop®, Koril®, Lontrel™, Mextrol®, Pardner®, Prestige™, Refine®, Starane™ and Thumper® are trademarks of their respective companies.