

2020-05-27
2019-3427

GROUP	10	HERBICIDE
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**INTERLINE™ Herbicide
Solution**

COMMERCIAL

WARNING



POISON

SKIN AND EYE IRRITANT

REGISTRATION NO. 32860 PEST CONTROL PRODUCTS ACT.

ACTIVE INGREDIENT: glufosinate ammonium 150 g/L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING.

UPL NA Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406, USA
1-800-438-6071
www.upi-usa.com

NET CONTENTS: 1 L to Bulk

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Causes skin and eye irritation. DO NOT get in eyes or on skin.

Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking or smoking.

Protective Clothing and Equipment: Workers must wear coveralls over long sleeved shirt, long pants, chemical resistant gloves, gloves, socks, chemical resistant footwear and goggles during mixing, loading, application, clean up and repair. Wear a respirator during mixing, loading and application. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels. Re-entry Restriction: Workers should not enter treated fields within 24 hours of treatment. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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 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.

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 treatment advice.

TOXICOLOGICAL INFORMATION:

Note to Physician: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Avoid spray drift to susceptible plants and USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

STORAGE:

- CANNOT be stored below freezing.
- If stored for 1 year or longer, shake well before using.

- Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.
- To prevent contamination, store this product away from food or feed.

DISPOSAL:**Recyclable Container Disposal (less than 23 litres):**

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 Container Disposal:

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

Refillable Container Disposal:

For disposal, this empty 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.

Disposal of Unused, Unwanted Product:

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 cleanup of spills.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

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.

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10

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GENERAL INFORMATION

- INTERLINE Herbicide **is a non-selective herbicide.**
- INTERLINE Herbicide provides control of a broad spectrum of grassy and broadleaf weeds in Canola varieties and hybrids that are specially developed to be tolerant to glufosinate ammonium.
- INTERLINE Herbicide is registered for use on glufosinate ammonium tolerant Canola varieties or hybrids.
- INTERLINE Herbicide may also be applied to glufosinate ammonium tolerant lines or varieties grown for seed production.
- For hybrid seed production, INTERLINE Herbicide may be used to remove segregating wild type plants within the female population. Two applications are required to do this. A third application may be necessary if it is determined that the segregating wild type plants are not fully removed from the field.
- Glufosinate ammonium tolerant Corn can be used as separator rows in hybrid Canola seed production, but must be destroyed and not used for food or feed.
- INTERLINE Herbicide may be used as a harvest aid (desiccant) on Alfalfa grown for seed.
- INTERLINE Herbicide will desiccate weeds that are present in the field at time of application when used as a harvest aid.
- INTERLINE Herbicide may also be used for primocane control in established Raspberries.

For use in eastern Canada and British Columbia only:

- INTERLINE Herbicide may be used as a harvest aid (desiccant) in dry common beans.
- INTERLINE Herbicide will also desiccate weeds present in the field at application.
- INTERLINE Herbicide may also be used for annual and perennial weed control under fruit trees, Grape vines and tree nuts.
- When applied pre-emergent to the crop, but post-emergent to weeds, INTERLINE Herbicide may also be used on stale seedbed in vegetables.
- INTERLINE Herbicide breaks down rapidly in the soil.

SAFETY AND HANDLING

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Causes skin and eye irritation. DO NOT get in eyes or on skin.

Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking or smoking.

Protective Clothing and Equipment:

- Workers must wear coveralls over long sleeved shirt, long pants, chemical resistant gloves, socks, chemical resistant footwear and goggles during mixing, loading, application, clean up and repair.
- Wear a respirator during mixing, loading and application

- When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

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.

Re-entry Restriction:

Workers should not enter treated fields within 24 hours of treatment. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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 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.

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 treatment advice.

TOXICOLOGICAL INFORMATION:

Note to Physician: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

ENVIRONMENTAL PRECAUTIONS:

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- Avoid spray drift to susceptible plants and USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

STORAGE:

- CANNOT be stored below freezing.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.
- To prevent contamination, store this product away from food or feed.

DISPOSAL:

Recyclable Container Disposal (less than 23 litres):

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 Container Disposal:

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

Refillable Container Disposal:

For disposal, this empty 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.

Disposal of Unused, Unwanted Product:

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 cleanup of spills.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

DIRECTIONS FOR USE

POST EMERGENT USE

CANOLA

- INTERLINE Herbicide is registered for aerial and ground application to glufosinate ammonium tolerant Canola varieties or hybrids
- INTERLINE Herbicide may also be applied to glufosinate ammonium tolerant Canola lines or varieties grown for seed production.
- **To assure crop safety and optimal herbicide performance, only use INTERLINE Herbicide on glufosinate ammonium tolerant Canola grown from certified seed.**
- INTERLINE Herbicide is not registered for use on other glufosinate ammonium tolerant crops.
- **Application of INTERLINE Herbicide to non-tolerant Canola varieties or hybrids or other non-tolerant crops will result in severe crop injury or death of the crop.**
- Apply INTERLINE Herbicide from the cotyledon stage up until, but prior to, the early bolting stage of Canola.

- Slight discoloration of the Canola may be visible after application. This effect is temporary and will not influence crop growth, maturity or yield.
- **For hybrid seed production** - Two applications are required to remove the segregating wild type plants. The first application should occur when the Canola is in the 2-4 leaf stage, the second application when the Canola plants are in the 4-6 leaf stage and the third application, if necessary, may be applied to the Canola up until, but prior to, the bolting stage. All applications of INTERLINE Herbicide for hybrid seed production should be made at 3.33 L/ha.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SUSCEPTIBLE WEEDS: INTERLINE Herbicide has an effect on all weeds and crops except for those crops which are developed to be tolerant to applications of INTERLINE Herbicide. The following weeds are susceptible to application of INTERLINE Herbicide. Best control will be obtained when INTERLINE Herbicide is applied in the recommended leaf stages.

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Cow Cockle	-----								1.33 L/ha
Green Foxtail	----- Maximum 3 tillers								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Barnyard Grass	-----								2 L/ha
Lady's-thumb	-----								
Lamb's-quarters	-----								
Russian Thistle	Up to 8 cm height								
Smartweed	-----								
Stinkweed	-----								
Volunteer Flax	Up to 6 cm height								
Wild Mustard	-----								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Canada Thistle ¹	Up to 10 cm height								2.67 L/ha
Common Chickweed	----- Leaf Pairs								
Hemp-nettle	----- Leaf Pairs								
Kochia	Up to 8 cm height								
Perennial Sow Thistle	-----								
Quackgrass ¹	-----								
Redroot Pigweed	-----								
Round-leaved Mallow	-----								
Scentsless Chamomile	Up to 10 cm height								
Shepherd's-purse	-----								

Volunteer Barley ²	-----	Maximum 2 tillers
Volunteer Wheat	-----	Maximum 2 tillers
Wild Buckwheat	-----	

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Cleavers	----- Whorls								3.33 L/ha
Dandelion	1-15 cm rosette								
Flixweed	Up to 10 cm height								
Hemp-nettle	-----								Leaf Pairs
Quackgrass ³	-----								
Stork's-bill	-----								
Wild Oats	-----								Maximum 2 tillers

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Heavy Populations									3.33 L/ha
Canada Thistle ¹	Up to 10 cm height								
Quackgrass ¹	-----								
Volunteer Barley ²	-----								Maximum 2 tillers
Volunteer Wheat	-----								Maximum 2 tillers
Wild Buckwheat	-----								

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
Canada Thistle ⁴	Up to 10 cm height								4 L/ha
Quackgrass ⁵	-----								

¹ Top Growth Suppression Only

² Suppression Only

³ Improved Top Growth Control

⁴ Better Top Growth Suppression

⁵ Season Long Control for Heavy Populations

SECOND APPLICATION

- A second application of INTERLINE Herbicide can be made to fields treated initially with up to 4.0 L/ha if new weed germination or growth is present.
- A first application of up to 4 L/ha may be followed by a second application of up to 3.33 L/ha,
OR
A first application of up to 3.33 L/ha may be followed by a second application of up to 4 L/ha.
- **Do not apply more than a total of 7.33 L/ha per year.**

- Apply when the new weed growth is in the correct leaf stage and up until, but prior to, the bolting stage of Canola.

THIRD APPLICATION: (FOR HYBRID SEED PRODUCTION ONLY)

- Three applications of INTERLINE Herbicide, each at 3.33 L/ha, may be required for hybrid seed production. The third application must occur prior to bolting of the Canola crop.
- For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.
- INTERLINE Herbicide will have an effect on weeds that are larger than the recommended leaf stage, however speed of activity and control may be reduced.

Use of Corn separator rows in hybrid Canola seed production

- INTERLINE Herbicide is registered for use on glufosinate ammonium tolerant Corn varieties or hybrids when used as separator rows.
- Corn should be seeded at 20,000 - 30,000 plants/ha.
- Row spacing for glufosinate ammonium tolerant Corn should be 18-23 cm.
- **Note:** Corn must be destroyed and not used for food or feed.

Tank Mixes

- Consult the label of the tank mix partner for further directions for use, restrictions and precautions. Tank mix partners may have additional restrictions for leaf staging.
- For enhanced activity INTERLINE Herbicide may be tank mixed with the following products:

CANOLA

TANK MIX PRODUCT	RATE	DIRECTIONS
Select® or Clethodim 360EC	63 mL/ha or 42 mL/ha	For control of Volunteer Barley and Wild Oats, apply INTERLINE Herbicide at a rate of 2.67 or 4.0 L/ha plus SELECT at 63 mL/ha or CLETHODIM 360EC at 42 mL/ha with adjuvant as recommended on the Select or CLETHODIM 360EC label. Apply when the weeds are in the 1-4 leaf stage with a maximum of 2 tillers.
Select® or Clethodim 360EC	190 mL/ha or 125 mL/ha	For control of weed species listed on the INTERLINE Herbicide and SELECT or CLETHODIM 360EC labels plus foxtail barley, spring-germinated Japanese and downy brome, apply INTERLINE Herbicide at a rate of 3.33 or 4.0 L/ha in tank mixture with SELECT at 190 mL/ha or CLETHODIM 360EC at 125 mL/ha and adjuvant as recommended on the SELECT or CLETHODIM 360EC label. Apply when the weeds are at growth stages listed on the INTERLINE Herbicide and SELECT or CLETHODIM 360EC labels, foxtail barley is at the 1-4 leaf stage with a maximum of 2 tillers and spring-germinated Japanese and downy brome are at the 1 to 6-leaf stage up to the emergence of the 1 st tiller stage.
Facet L + Merge	0.28 L/ha + 0.5 - 1.0 L/ha	For enhanced and more consistent control of cleavers, apply INTERLINE Herbicide at a rate of 3.33 L/ha plus Facet L at 0.28 L/ha. Apply in 100 L/ha of water with Merge Adjuvant at a rate of 0.5 to 1 L/ha. Application should be made from the 2 to 6 true leaf stage of the canola crop.

Note: Do not tank mix INTERLINE Herbicide with herbicides, fertilizers or chemical additives unless recommended on this label.

PRIMOCANE CONTROL IN RASPBERRY

- Apply INTERLINE Herbicide in a minimum of 330 L/ha of water. Use a combination of spray pressures and nozzles, which will provide small droplet sizes and thorough coverage.

CROP	RECOMMENDATIONS	RATE
RASPBERRY (established Raspberries only)	INTERLINE Herbicide is recommended for the control of primocanes in established Raspberries. Apply when shoots are about 10-20 cm in height. DO NOT apply to immature or weak plantings.	BROADCAST RATE 6.67 L/ha BANDED RATE Adjust the Broadcast application rate per hectare proportional to the width of the band applied. Use the formula to calculate the banded rate per hectare:
	FORMULA TO CALCULATE THE BANDED RATE PER HECTARE: Banded rate per hectare = (Band width ÷ Row width) x Broadcast Rate Example: 3.05 metre row spacing and 0.61 metre band width (0.61 M ÷ 3.05 M) x 6.67 L/ha = 1.33 L/ha band rate	

Caution: Avoid contact of the spray with desirable canes, plants and vegetation.

DESICCATION USE

Crops, Instructions and Rate

- INTERLINE Herbicide may be applied for desiccation, by ground or air, to Alfalfa (grown for seed).
- INTERLINE Herbicide will also desiccate weeds, which are present in the field at time of application (Wild Buckwheat may not be completely desiccated).
- Desiccation of crops and weeds will be best when environmental conditions are favourable (warm temperatures, good moisture conditions, high humidity)

CROP	INSTRUCTIONS	RATE
ALFALFA (grown for seed)	Apply INTERLINE Herbicide at 50-75% pod turn (brown) stage. Do NOT apply more than once per year.	2.7 L/ha

Note: Do NOT tank mix INTERLINE Herbicide with pesticides, fertilizers or chemical additives unless recommended on this label.

FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA ONLY

DESICCATION USE

CROP	RECOMMENDATIONS	RATE
DRY COMMON BEANS (do not apply to Dry Common Beans grown for seed)	Apply when approximately 50-75% of the bean pods have naturally changed colour from green to yellow or brown (pod turn). The crop may be straight combined when ready, allowing a minimum of 9 days after application. INTERLINE Herbicide, when applied to Dry Common Beans at the appropriate stage, will uniformly dry down the crop and weeds, facilitating harvest and preventing bean staining. Any secondary growth will be terminated, and moisture levels in the seed will be reduced, allowing for earlier harvest.	2.5-3 L/ha ¹

¹Use the higher rate when the crop canopy is dense and/or there are high populations of weeds present at application.

DO NOT apply using aerial application equipment

Note: INTERLINE Herbicide will also desiccate weeds present in the field at application (Wild Buckwheat may not be completely desiccated).

WEED CONTROL IN ORCHARDS AND VINEYARDS

CROP	RECOMMENDATIONS	RATE
APPLES APRICOTS CERRIES (sweet and sour) HIGHBUSH BLUEBERRIES GRAPES NECTARINES PEARS PLUMS PEACHES • MEMBERS OF CROP GROUP 14-11: TREE NUTS, INCLUDING: - ALMOND, - BEECH NUT, - BUTTERNUT, - CHESTNUT, - FILBERT (HAZELNUT), - HICKORY NUT, - PECAN,	INTERLINE Herbicide is recommended for the control of weeds in established orchards and vineyards. INTERLINE Herbicide may be applied with ground (boom) spray equipment, high volume, orchard spray guns or handheld pump-type and backpack sprayers. For the specific weeds controlled by INTERLINE Herbicide, refer to the “Weed Control Information” Section Repeat treatments may be necessary to control new germination of annual weeds. Do not make more than 2 applications per year. Do not	POWER AND/OR TRACTOR OPERATED SPRAYERS Apply INTERLINE Herbicide at 2.7-5 L/ha for the control of annual grass and broadleaf weeds. Use as a directed spray around the base of the trees or vines. HAND HELD PUMPTYPE AND BACKPACK SPRAYERS Mix INTERLINE Herbicide at 27-50 mL of product per 10 litres of spray solution for the control of annual grass and broadleaf weeds. Use as a directed spray around the base of the trees or vines.

<ul style="list-style-type: none"> - WALNUT, - CHINQUAPIN NUT, - BUR OAK NUT, - GINGKO NUT, - HEARTNUT, - JAPANESE HORSE CHESTNUT, - PINE NUT 	<p>apply more than 6.7 L/ha total product in one season.</p> <p>Avoid contact of INTERLINE Herbicide solution, spray, drift or mist with green bark, stems, or foliage, as injury may occur to trees, vines or canes. Only trunks with callused, mature brown bark should be sprayed unless protected from spray contact by nonpourous wraps, tree/bark guards, grow tubes or waxed containers. Contact of INTERLINE Herbicide with parts of trees, vines or canes other than mature brown bark can result in serious damage.</p> <p>For control of weeds present and residual control of annual grass and broadleaf weeds, INTERLINE Herbicide may be tank mixed with Princep® NineT® or Simadex®.</p>	
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DO NOT apply using aerial application equipment

WEED CONTROL IN VEGETABLES

INTERLINE Herbicide will control weeds that are contacted, and will have no effect on the crop if it has not yet emerged.

The seedbed should be prepared in sufficient time prior to seeding the crop, to allow weeds to emerge. The crop is seeded with a minimum of disturbance to the (stale) seedbed. Application of INTERLINE Herbicide may take place any time after initial cultivation of the seedbed up until emergence of the crop.

CROP	RECOMMENDATIONS	RATE
ASPARAGUS (stale seedbed, direct seeded)	INTERLINE Herbicide may be applied prior to emergence of Asparagus as a stale seedbed technique for annual grass and broadleaf weed control.	Apply INTERLINE Herbicide at 2.7-5 L/ha depending on the weeds present at application.
ASPARAGUS (established beds after harvest)	INTERLINE Herbicide may be applied after spears have been harvested.	
CARROTS, LETTUCE, ONIONS (stale seedbed)	INTERLINE Herbicide may be applied as a stale seedbed technique for annual grass and broadleaf weed control.	

DO NOT apply using aerial application equipment

WEED CONTROL INFORMATION

2.7 – 4 L/ha:

- Common Chickweed, Green Foxtail, Lamb's-quarters, Stinkweed, Wild Mustard, Redroot Pigweed (use 4 L/ha).

4 – 5 L/ha:

- Dandelion, Oak-leaved Goosefoot, Wild Buckwheat

Rate Range:

- Where a rate range is given use the higher rate when:
 1. the crop or weed growth is dense.
 2. the weeds are large and/or mature.
 3. the environmental conditions are cool and dry.

Timing:

- For best results, apply to emerged, young actively growing weeds. Weeds that emerge after application will not be controlled.
- Apply before weeds reach a height of 30 cm.
- INTERLINE Herbicide will control weeds at all leaf stages, although coverage is more difficult when weeds are large or mature.
- Weeds will be best controlled when environmental conditions are favourable (warm temperatures, good moisture conditions, high humidity).

Tank Mixes

- Do not mix INTERLINE Herbicide with fertilizers or any other chemical additives unless recommended on this label.

APPLES AND PEARS (Bearing and Non-bearing Trees Established One Year or More) USING POWER AND/OR TRACTOR OPERATED SPRAYERS:

Tank Mix Product	Application Rate	Directions
Princep Nine-T	2-5 kg/ha	Consult the Princep Nine-T and Simadex labels for further instructions regarding directions for use, restrictions, precautions and weeds controlled.
Simadex	4.5-9 L/ha	

USING HAND HELD PUMP-TYPE AND BACKPACK SPRAYERS:

Tank Mix Product	Application Rate	Directions
Princep Nine-T	25-50 g/10 L	Consult the Princep Nine-T and Simadex labels for further instructions regarding directions for use, restrictions, precautions and weeds controlled.
Simadex	45-90 mL/10 L	

**GRAPES (Established Three Years or More) – Eastern Canada Only
USING POWER AND/OR TRACTOR OPERATED SPRAYERS:**

Tank Mix Product	Application Rate	Directions
Princep Nine-T	4-5 kg/ha	Consult the Princep Nine-T and Simadex labels for further instructions regarding directions for use, restrictions, precautions and weeds controlled.
Simadex	7.2-9 L/ha	

USING HAND HELD PUMP-TYPE AND BACKPACK SPRAYERS:

Tank Mix Product	Application Rate	Directions
Princep Nine-T	40-50 g/10 L	Consult the Princep Nine-T and Simadex labels for further instructions regarding directions for use, restrictions, precautions and weeds controlled.
Simadex	72-90 mL/10 L	

GENERAL INSTRUCTIONS

Herbicide Resistance Management Recommendations

For resistance management, INTERLINE Herbicide is a Group 10 herbicide. Any weed population may contain or develop plants naturally resistant to INTERLINE Herbicide and other Group 10 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 INTERLINE Herbicide or other Group 10 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 your local UPI representative, or call UPL NA Inc. toll-free at 1-800-438-6071.

Application Instructions and Precautions

APPLICATION INSTRUCTIONS:

- The speed of action of INTERLINE Herbicide is influenced by environmental factors. At cool temperatures (below 10° C), poor moisture and low humidity, the speed of action may be reduced. Generally, visual symptoms appear 2-4 days after application.
- For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.
- INTERLINE Herbicide will have an effect on weeds that are larger than the recommended leaf stage; however speed of activity and control may be reduced. Better coverage will be achieved with higher spray volumes
- INTERLINE Herbicide works primarily as a contact herbicide. Thorough coverage of the weeds to be controlled, or the crop to be desiccated, is essential.
- INTERLINE Herbicide breaks down rapidly in the soil. There are no cropping or rotational restrictions after application.
- When a rate range is given the higher rate should be utilized:
 1. when the weed or crop growth is dense;
 2. when the weeds are large and/or mature - i.e., advanced leaf stages and plant height;
 3. when the environmental conditions are cool and dry.

Ground Application Instructions:

- Ensure that all circuits (pipes, booms etc.) have the correct INTERLINE Herbicide /water concentration before application is started.
- Apply INTERLINE Herbicide in a minimum of 110 L/ha of water, at a pressure of 275 kPa and at a ground speed of 6-8 kph. If check valves are used, apply at 310 kpa. The use of 80° or 110° flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration.

- Application of the spray at a 45° angle forward will result in better spray coverage. Refer to “Crops, Instructions and Rates” for the correct rate and timing of application.
- **For desiccation uses only**, where the crop canopy is dense or weed growth is heavy, achieve better spray coverage with higher spray volumes. Under these conditions, apply INTERLINE Herbicide in a minimum of 170-220 L/ha of water. Refer to Aerial Application for appropriate aerial water volumes.

Application Instructions for Weed Control in Orchards and Vineyards:

Power and Tractor-Operated Sprayers:

Apply INTERLINE Herbicide in 330-1100 L/ha of water. Apply at a spray pressure of 275-310 kPa using nozzles (flat fan, hollow, or cone) which provide small droplets and thorough coverage.

Hand Held Pump-Type and Backpack Sprayers:

Apply INTERLINE Herbicide in a water volume of 10 litres per 100 M² to provide thorough coverage, but not to the point of runoff. Ensure that spray pressures are maintained during application.

Application Instructions for Weed Control in Vegetables:

Apply INTERLINE Herbicide in a minimum of 110-330 L/ha of water. Apply at a spray pressure of 275-310 kPa using nozzles (flat fan, hollow, or cone) which will provide small droplets and thorough coverage.

Aerial Application Instructions:

- 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.
- Exercise extreme caution during the aerial application of any insecticide, herbicide or fungicide. Drift of pesticides is not always visible with the human eye. Small droplets may drift into sensitive areas without obvious signs of danger. Follow these directions precisely.
- When applying INTERLINE Herbicide by aircraft, uniform spray coverage is essential. Applicators are required to use the correct combination of spray nozzle tips, nozzle placement and spray pressures which will provide a coarse droplet size distribution with a volume mean diameter greater than 350 microns. Do not use raindrop nozzles. To avoid streaked, uneven or overlapped application, use appropriate marking devices.
- **Post-emergent Use in Glufosinate Ammonium tolerant canola Water Volume:** Apply INTERLINE Herbicide in a minimum of 55 L/ha of water only.
- **Desiccation Use Only Water Volume Range:** If the crop canopy is dense or weed growth is heavy, achieve better spray coverage with higher spray volumes. Under these conditions, if using aerial application, apply INTERLINE Herbicide in a minimum of 33-55 L/ha of water.

APPLICATION PRECAUTIONS

- Weed control may be reduced when heavy dew, fog or mist is present at the time of application.
- Uniform, thorough spray coverage is important to achieve consistent weed control.
- Crop injury may result if INTERLINE Herbicide is applied to a crop stressed by severe weather conditions, frost, drought, water-saturated soil, low fertility, disease or insect damage.
- INTERLINE Herbicide is a non-selective herbicide and has the potential to desiccate, defoliate or kill all green plants. Avoid contact with other desirable plants or crops by direct application or from spray drifts as severe damage may occur.
- **Application of INTERLINE Herbicide to non-tolerant Canola varieties, hybrids or other non-tolerant crops will result in severe crop injury or death of the crops.**
 - **To assure crop safety and optimal herbicide performance, only use INTERLINE Herbicide on glufosinate ammonium tolerant Canola grown from certified seed.**

Ground Application Precautions:

- 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) medium classification. Boom height must be 60 cm or less above the crop or ground.
- Do NOT apply if winds exceed 16 kph when using open boom sprayers for ground application.
- Do NOT apply if winds exceed 25 kph when using hooded sprayer for ground application.
- Do not use flood jet nozzles, controlled droplet application equipment or air-assisted spray equipment.

Aerial Application Precautions:

- Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wingspan or rotorspan.
- Read and understand the entire label before opening this product. If you have questions, call UPL NA Inc. toll-free at 1-800-438-6071 or obtain technical advice from the distributor or your provincial agricultural representative.

Aerial Application Operator Precautions:

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

- The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Rainfast Period:

- **If rainfall occurs within 4 hours of application, effectiveness may be reduced.**

Buffer Zones:

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

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

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer*	Alfalfa, Canola, Corn, Raspberry, Apple, Asparagus, Bean, Carrot, Cherry (sweet and sour), Grape, Highbush Blueberry, Lettuce, Onion, Peach, Pear, Plum, Raspberry, Nectarine, Apricot, Members of Crop Group 14-11: Tree Nuts, including: almond, beech nut, butternut, chestnut, filbert (hazelnut), hickory nut, pecan, walnut, chinquapin nut, bur oak nut, ginkgo nut, heartnut, Japanese horse chestnut, pine nut	1	0	1

Aerial (fixed wing and rotary)	Alfalfa	1	0	20
	Canola	1	0	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.

Mixing Instructions

- INTERLINE Herbicide must be applied with properly calibrated, clean equipment.
- INTERLINE Herbicide is specially formulated to mix readily in water.
- Prior to adding INTERLINE Herbicide to the spray tank, ensure that the spray tank is thoroughly clean “Sprayer Cleanup”.
 1. Fill the tank three-quarters full with clean water.
 2. Add the correct amount of INTERLINE Herbicide.
 3. Add the remaining amount of water, begin agitation, and spray out immediately.

TANK-MIXES:

INTERLINE Herbicide and SELECT or CLETHODIM 360EC: Glufosinate Ammonium Tolerant Canola only

When tank mixing INTERLINE Herbicide and SELECT or CLETHODIM 360EC, always add AMIGO adjuvant to the tank first, then add INTERLINE Herbicide to the tank followed by SELECT or CLETHODIM 360EC.

When using a tank-mix partner *always* consult the respective product label for further precautionary and application information.

The addition of an anti-foaming agent may reduce foaming, especially when using soft water.

1. Thoroughly clean the sprayer by flushing the system with water containing detergent (see “Sprayer Cleanup”).
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add the correct amount of AMIGO. Continue to agitate until AMIGO is thoroughly mixed.
4. STOP agitation. Add the required amount of INTERLINE Herbicide to the spray tank. Start agitation system.
5. Add the correct amount of SELECT or CLETHODIM 360EC along with the remaining amount of water necessary to fill the spray tank.
6. Continue to agitate or run the by-pass system, and spray out immediately.
7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
9. Immediately after use, thoroughly clean the sprayer by flushing the system with water containing detergent (see “Sprayer Cleanup”).

Sprayer Cleanup

- Before and after using INTERLINE Herbicide always complete a thorough cleaning of the spray tank, lines, and filter. Spray equipment should be thoroughly rinsed using a strong detergent solution.

PLANT BACK INTERVALS

- **70 days for buckwheat, barley, millet, oats, rye, sorghum, triticale, and wheat.**
- **120 days for all other crops except field corn, canola and soybeans.**
- **No plant-back interval is required for field corn, canola or soybeans.**

Livestock Feeding and Preharvest Intervals

LIVESTOCK FEEDING:

Canola:

- Grain and meal from treated crop can be fed to livestock.
- Do not graze the treated crop or cut for hay; sufficient data are not available to support such use.

Corn (used as separator rows in Hybrid Canola Seed Production):

- Do not feed treated crop to livestock; sufficient data are not available to support such use.

Dry common beans, fruits, vegetables, tree nuts:

- Grain and meal from treated crops can be fed to livestock.
- **CAUTION:** Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

PRE-HARVEST INTERVALS

Canola:

- When INTERLINE Herbicide is tank mixed with Facet L, observe a PHI of 60 days from the date of treatment.

Dry Common Beans: 9 days

Apricots, Cherries (sweet and sour), Highbush Blueberries, Nectarines, Peaches, Plums,

Tree Nuts: 14 days

Apples, Grapes, Pears: 40 days

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.

Interline is a trademark of UPL Agrosolutions Canada Inc.