

PRODUCT LABELS FOR

SOLO ULTRA:

SOLO ADV

+

POAST ULTRA

Container

GROUP	2	HERBICIDE
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SOLO® ADV

HERBICIDE

SOLUTION

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND
INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

ACTIVE INGREDIENT: Imazamox 25 g/L

REGISTRATION NO. 32066 PEST CONTROL PRODUCTS ACT

CAUTION – SKIN IRRITANT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**

NET CONTENTS: 1 L - 1000 L, Bulk

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

SOLO is a registered trade-mark of BASF SE, used under license by BASF Canada Inc.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DO NOT take internally. Harmful if swallowed.

May irritate skin. Avoid contact with skin.

Avoid breathing spray and mist. Use with adequate ventilation.

Wash thoroughly after handling and before eating, drinking or smoking.

Wear a long-sleeved shirt and long pants during all activities, and wear chemical-resistant gloves during mixing/loading, clean-up and repair activities.

If clothing becomes contaminated, remove immediately and wash separately from household laundry before reuse.

Do not enter or allow workers entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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

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.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

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

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 filter strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

STORAGE

1. Shake well before use.
2. Store this product away from food or feed.
3. Store in original, tightly-closed container.
4. Do not ship or store the product near food, feed, seed or fertilizers.
5. Store in a cool, dry, locked, well-ventilated area without floor drain.
6. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.
7. Protect from freezing. **SOLO ADV** will freeze at -5°C . If this product has been stored where freezing temperatures have occurred, thaw the product completely at room temperature, then shake well before use.

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.

Refillable Containers

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.

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

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Avoid application when heavy rain is forecast.

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

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NOTICE TO USER

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GENERAL INFORMATION

SOLO ADV is a selective herbicide that can be applied as an early post-emergence treatment in **Clearfield®** Lentils¹ (lentil varieties with the **Clearfield** trait), **Clearfield** Sunflowers¹ (sunflower varieties with the **Clearfield** trait) and soybeans.

When **SOLO ADV** is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Use of **SOLO ADV** on sunflower or lentil varieties not designated with the **Clearfield** trait will cause severe injury.

DIRECTIONS FOR USE

DO NOT apply more than once per year.

Field Sprayer Application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

Spray Buffer Zones

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

The spray 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).

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of Terrestrial Habitat
Field sprayer	All crops	1

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 spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticide portion of the Canada.ca website.

Registered Crops and Application Timing

SOLO ADV may be applied as an early post-emergence treatment to the following crops. Applications should be made at the appropriate crop staging as indicated below and after weeds have emerged. To control broadleaf weeds, apply **SOLO ADV** from the cotyledon to the 4-leaf stage. To control grasses, apply **SOLO ADV** from the 1 to 4-true leaf stage up until early tillering.

Crop	Leaf Stage
Clearfield Lentils ¹	1-9 node stage
Clearfield Sunflowers ¹	2 to 8 true leaf stage
Soybeans	cotyledon to 4-leaf stage

Application Rates and Weeds Controlled

Apply **SOLO ADV** in a water volume of 100 L/ha for control of broadleaf and grass weeds as indicated below. Initial transient crop yellowing may be observed after application but this is usually outgrown and should not affect crop yield.

SOLO ADV at 0.8 L/ha will control:	
Barnyard grass	Volunteer barley
Cleavers*	Volunteer canary seed
Cow cockle	Volunteer canola (non- Clearfield tolerant canola only)
Downy brome**	Volunteer durum wheat (non- Clearfield tolerant wheat)
Green foxtail	Volunteer spring wheat (non- Clearfield tolerant wheat)
Green smartweed	Volunteer tame oats
Japanese brome grass*	Wild buckwheat*
Kochia*	Wild mustard
Lamb's-quarters	Wild oats
Persian darnel	Yellow foxtail
Redroot pigweed	
Round-leaved mallow*	
Russian thistle	
Shepherd's purse	
Stinkweed	

* suppression only

** including glyphosate-resistant biotypes

Tank Mix Options

To provide enhanced weed control, **SOLO ADV** may be tank-mixed with the following tank-mix partners.

SOLO ADV + POAST® ULTRA Liquid Emulsifiable Herbicide

SOLO ADV may be tank-mixed with POAST ULTRA Liquid Emulsifiable Herbicide and applied to **Clearfield** Lentils¹ (lentil varieties with the **Clearfield** trait), **Clearfield** Sunflowers¹ (sunflower varieties with the **Clearfield** trait) and soybeans.

Apply to broadleaf weeds from the cotyledon to 4-leaf stage and to grassy weeds from 1-6 true leaf or up to 2 tillers. Refer to the POAST ULTRA Liquid Emulsifiable Herbicide label for additional recommendations, precautions and restrictions not specified on this label.

Rate	0.8 L/ha SOLO ADV + POAST ULTRA Liquid Emulsifiable Herbicide at 0.32 to 0.47 L/ha
Water Volume	100 L/ha
Weeds Controlled	<p>This tank-mix combination will provide control of the following weeds in addition to those listed in the Application Rates and Weeds Controlled section of this label. Apply POAST ULTRA Liquid Emulsifiable Herbicide at the 0.47 L/ha rate when weed densities are high and overlapping, when staging is late, or when weeds are under stress and not growing as actively due to moisture stress or temperature stress.</p> <ul style="list-style-type: none"> Crabgrass (large) Fall panicum Green foxtail ¹ (including Group 1 and 2 resistant) Proso millet Quack grass (suppression, 2 to 5 leaf) ² Volunteer corn Volunteer wheat (including Clearfield) Wild oats ¹ (including Group 1 and 2 resistant) Witchgrass Yellow foxtail

¹ The tank mix of **SOLO ADV** + POAST ULTRA Liquid Emulsifiable Herbicide will not control weed biotypes that are multiple-resistant to both Group 1 and Group 2 Herbicides.

² Apply 0.38 – 0.47 L/ha of POAST ULTRA Liquid Emulsifiable Herbicide.

SOLO ADV + Caziva® Ultra Q, Assure® II Herbicide or Yuma® GL Liquid EC Herbicide

SOLO ADV may be tank-mixed with Caziva Ultra Q, **Assure® II** Herbicide or Yuma GL Liquid EC Herbicide and applied to **Clearfield** Lentils¹ (lentil varieties with the **Clearfield** trait), **Clearfield** Sunflowers¹ (sunflower varieties with the **Clearfield** trait) and soybeans as a post-emergent application. Apply after weeds have emerged and from the 1-9 node stage of **Clearfield** Lentils¹; 2 to 8 true leaf stage of **Clearfield** Sunflowers¹; and cotyledon to 4-leaf stage of soybeans.

Application Rate

Apply in 100 L/ha of water. Use ground equipment only.

Crops	SOLO ADV (L/ha)	Caziva Ultra Q, Assure II or Yuma GL Liquid EC Herbicide (L/ha)
Clearfield Lentils ¹ , Clearfield Sunflowers ¹ , soybeans	0.8	0.38 – 0.75

Weeds Controlled

This tank-mix combination will provide control of the grass weeds listed below in addition to the broadleaf weeds listed in the Application Rates and Weeds Controlled section of this label. Refer to the tank mix partner product labels for weed stages of control.

Caziva Ultra Q ¹

Grass Weeds Controlled

0.38 L/ha

Barnyard grass	Volunteer canary seed
Downy brome	Volunteer corn
Foxtail barley	Volunteer tame oats
Green foxtail ²	Volunteer wheat (spring and durum) ³
Japanese brome	Yellow foxtail
Persian darnel	Wild oats ²
Volunteer barley	

0.50 L/ha

Those controlled above by 0.38 L/ha and:

Fall panicum	Proso millet
Old witchgrass	Quackgrass (suppression)

0.75 L/ha

Those controlled above and:
Quackgrass

¹ Assure II or Yuma GL Liquid EC Herbicide may be substituted for Caziva Ultra Q at same product rate.

² including Group 1 or Group 2 resistant biotypes.

³ including Clearfield tolerant varieties.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than BASF Canada under the User Requested Minor Use Label Expansion program. For these uses, BASF Canada 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.

Imidazolinone-tolerant Chickpeas (chickpea varieties designated as imidazolinone-tolerant)

Apply only to imidazolinone-tolerant chickpeas. **Use of SOLO ADV on chickpea varieties not designated with the imidazolinone trait will cause severe injury.** Growers should consult the seed guide and supplier at point of purchase for tolerant varieties.

Applications should be made at the appropriate crop staging as indicated below and after weeds have emerged. To control broadleaf weeds, apply **SOLO ADV** from the cotyledon to the 4-leaf stage. To control grasses, apply **SOLO ADV** from the 1 to 4-true leaf stage up until early tillering.

Rate	0.8 L/ha SOLO ADV
Water Volume	100 L/ha
Application Timing	Early post-emergence, 1 – 6 node of chickpea
Weeds Controlled	Labelled weeds as listed in the Application Rates and Weeds Controlled section of this label.
PHI	60 days

PRE-HARVEST AND GRAZING INTERVALS (PHI)

The following pre-harvest and grazing intervals should be observed for respective crops.

Crop	PHI (days)
Clearfield lentils ¹	60
Clearfield sunflowers ¹	70
Soybeans	60

DO NOT graze the treated **Clearfield** Lentils¹ or soybeans or cut for hay within 20 days of application.

DO NOT graze treated sunflower plants or cut for straw; sufficient data are not available to support such use.

RESTRICTIONS AND LIMITATIONS

1. **DO NOT** apply when weather conditions may cause spray drift from treated fields to adjacent crops. Clean sprayer thoroughly after use to avoid damage to the next crop sprayed.
2. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
3. **DO NOT** apply to any crops that have been subjected to stress from conditions such as frost, hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold weather or injury from prior herbicide applications, as crop injury may result.
4. Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.
5. As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
6. This product may be tank mixed 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.
7. In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact BASF at 1-877-371-2273 for information before applying any tank mix that is not specifically recommended on this label.

SPRAYING INSTRUCTIONS

Select proper nozzle to avoid spraying fine mist. For best results, use sprayers equipped with flat fan or similar nozzles to ensure coverage. Apply in a spray volume of 100 L/ha and at a pressure of 275 kPa. Better coverage of the product results in enhanced control of weeds.

MIXING INSTRUCTIONS

1. Shake well before use. When applying **SOLO ADV**, always start with a clean sprayer. Refer to previously applied product labels for specific cleaning instructions.
2. Fill the clean spray tank with half to three-quarters of the required amount of clean water and start agitation system. Agitation should be running during the entire mixing procedure.

3. Add the correct amount of **SOLO ADV** and continue to agitate.
4. If required, add the required amount of POAST ULTRA Liquid Emulsifiable Herbicide, Caziva Ultra Q, Assure II Herbicide or Yuma GL Herbicide while agitating the spray solution.
5. Continue agitation while filling the spray tank with the remaining amount of water.
6. Maintain continuous and constant agitation throughout application until spraying is complete.
7. Upon completion of spraying **SOLO ADV**, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

FOLLOW CROPPING

Winter wheat can be planted 3 months after treatment (3 MAT) as a rotational crop.*

Initial crop injury to non-**Clearfield** canola may be observed. Avoid spray overlap as yield reduction may result. The following crops may be grown safely the year following an application:

- Canary seed*
- Field corn
- Field peas
- Clearfield** Canola¹
- Non-**Clearfield** canola*
- Lentils
- Spring wheat
- Durum wheat*
- Spring barley
- Soybeans
- Sunflower
- Tame oats*
- Flax*
- Chickpeas
- Clearfield** Sunflowers¹

The following crop may be grown safely two years following an application:

- Mustard (condiment type only)*

*If drought conditions are experienced between June 1 and September 1 in the year of application, delay planting of winter wheat, durum wheat, canary seed, tame oats, flax and canola (non-**Clearfield**) by an additional year. If drought is received between June 1 and September 1 in the year of application OR between June 1 and September 1 in the year following application, delay planting of mustard by an additional year.

In the grey, black, and dark brown soil zones, drought is defined as less than 125 mm of total precipitation between June 1 and September 1. In the brown soil zone, drought is defined as less than 125 mm of total precipitation between June 1 and September 1, OR less than 15 mm of precipitation in any month between June 1 and September 1.

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

WARNING: Certain environmental conditions may delay the breakdown of herbicide residues in soil. These conditions include but are not limited to drought, extremes in soil pH (less than 6.5), low organic matter soils (less than 3%), extremely coarse textured (sandy) soils, and excessive cold. Under these conditions, the level of phytotoxic herbicide residues present in the field the season following an application may result in an increased potential for injury to succeeding crops to occur. This potential for increased residues under these environmental conditions is not unique to any specific herbicide or herbicide group but is a property of those herbicides which persist in the soil and are dependent on soil microbial activity and other non-microbial processes (e.g., hydrolysis) to breakdown.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **SOLO ADV** herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **SOLO ADV** herbicide and other Group 2 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 **SOLO ADV** herbicide or other Group 2 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 BASF at 1-877-371-2273 or at www.agsolutions.ca.

Clearfield is a registered trade-mark of BASF Agrochemical Products B.V. and CAZIVA and POAST are registered trade-marks of BASF SE, all used under license by BASF Canada Inc.

¹ *Methods of growing plants which are resistant to certain acetohydroxyacid synthase (AHAS) herbicides are protected by Canadian Patent No. 1341465. Other applicable patents include Canadian Patent Application No. 2447445. The use of this product in the practice of patented methods could constitute patent infringement. Further information can be obtained by contacting BASF Canada at 1-877-371-2273.*

Container Label

GROUP

1

HERBICIDE

POAST® ULTRA

Liquid Emulsifiable Herbicide

EMULSIFIABLE CONCENTRATE

For post-emergence control of grasses in certain broadleaf crops

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Sethoxydim..... 450 g/L

REGISTRATION NO.: 24835 **PEST CONTROL PRODUCTS ACT**

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CAUTION – SKIN IRRITANT
CAUTION – EYE IRRITANT

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©BASF Canada Inc., 1997

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Do not take internally.
3. May cause irritation of eyes and skin. Avoid inhalation of vapour or spray mist and contact with eyes, skin or clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.
5. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and rubber boots during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.
6. 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.
7. Do not contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
8. Do not apply where run-off or erosion is likely to occur.
9. DO NOT apply this product in a way that will cause this product to contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
10. DO NOT enter or allow entry into treated areas during the restricted-entry interval (REI) of 12 hours.
11. 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.

ENVIRONMENTAL PRECAUTIONS

1. TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTION FOR USE.
2. This product contains a petroleum distillate that is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during applications.
3. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuaries or marine habitats.
4. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
5. 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 or fine textured such as clay).

6. Avoid application of this product when heavy rain is forecast.
7. 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.

FIRST AID

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.

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

NOTE: If tank mixing, refer to individual product labels for additional first aid instructions.

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE

1. Store in original, tightly-closed container and do not allow water to be introduced into this container.
2. Do not ship or store near food, feed, seed or fertilizers.
3. Store in a cool, dry, locked, well-ventilated area without floor drain.
4. 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 any 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 a way that is inconsistent with the directions on the label.

Booklet

GROUP

1

HERBICIDE

POAST® ULTRA

Liquid Emulsifiable Herbicide

EMULSIFIABLE CONCENTRATE

For post-emergence control of grasses in certain broadleaf crops

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Sethoxydim..... 450 g/L

REGISTRATION NO.: 24835

PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**



CAUTION POISON
CAUTION – SKIN IRRITANT
CAUTION – EYE IRRITANT

NET CONTENTS: 1 L – 100 L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

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GENERAL INFORMATION

Poast Ultra liquid emulsifiable herbicide is a liquid emulsifiable concentrate herbicide for post-emergence control of annual grasses, wild oats, volunteer cereals and quackgrass in asparagus, basil (fresh and dried), beans (including adzuki, dry common, faba, lima, mung and snap common), lowbush and highbush blueberries, borage, broccoli, buckwheat, Brussels sprouts, cabbage, caneberry, canola (rapeseed including glufosinate tolerant, imazethapyr and imazamox tolerant [e.g. canola varieties with the **Clearfield**® trait] and triazine tolerant varieties), caraway, carrots, cauliflower, celery, chickpeas, chicory (*Chicorium intybus* species only), coriander, cranberries, creeping red fescue¹, cucumbers², dill, ethnic cole crops (Chinese broccoli, Chinese radish, napa cabbage, kohlrabi, mustard cabbage), fenugreek, flax including low linolenic acid varieties, forage legumes for seed and forage (seedling and established: alfalfa, alsike clover, cicer milkvetch, sainfoin, and sweet clover), garden beets, garlic, grape vines, hops, lentils, lettuce (direct seeded and transplanted – head, leaf and romaine), mint crops (spearmint and peppermint), mustard, onions (dry bulb and green), Valencia peanuts (Ontario only), peas (dry and fresh processing³), peppers (field and green), potatoes, pumpkins, raspberries, safflower, soybeans, spinach, squash, strawberries, sugar beets, snow peas, sunflowers, sweet potato, tomatoes, turnips, trees and shrubs, bearing fruit trees (apple, apricot, sweet and sour cherry, peach, pear and plum), non-bearing fruit trees (apple, peach and plum), recently planted (non-bearing) orchards and shelterbelts of choke cherry and chickling vetch, new and established plantings of *Populus* species (poplar and aspens) and their hybrids, including short rotation intensive culture (SRIC) *Populus* crops, seedlings and rooted cuttings. (Refer to crop recommendations table for maximum rate permitted on crops).

Poast Ultra liquid emulsifiable herbicide does not control sedges or broadleaf weeds. This product does not provide residual weed control.

Poast Ultra liquid emulsifiable herbicide is a contact and a systemic herbicide. Uptake into the plant is primarily through its leaves. Thorough coverage of the foliage is important for consistent grass control. Once treated, susceptible grasses that were actively growing prior to treatment **stop growing** and undergo a burn-back and colour change first to a yellowish, then purplish and finally a brown colour. The time required for complete control is normally 7 to 21 days following treatment, depending on growing conditions and crop competition.

Control of quackgrass develops more slowly than control of annual grasses. **Poast Ultra** liquid emulsifiable herbicide is translocated through the quackgrass plant to the rhizomes and kills actively growing rhizome buds, as well as above ground vegetation. Dormant rhizome buds will remain unaffected by the spray and regrowth can occur from these buds. When **Poast Ultra** liquid emulsifiable herbicide is applied according to label directions, the regrowth of the quackgrass will not be significant until 6-8 weeks after treatment, depending on growing conditions, crop cultivation practices and crop competition.

¹ For seed production only.

² Not for use in greenhouse cucumbers.

³ Do not use this product on fresh edible pod peas.

DIRECTIONS FOR USE

Select one of the following treatments for control of grass species as listed below. **Merge®** Adjuvant must be added to all applications of **Poast Ultra** liquid emulsifiable herbicide, including tank mixtures with broadleaf herbicides. Refer to Crop Recommendations table for maximum rate permitted on crops, especially buckwheat, snap common beans, herbs, low linolenic acid flax varieties and seedling forage legumes (except seedling alfalfa).

A plantback interval of 30 days is required for all crops other than those listed on the **Poast Ultra** liquid emulsifiable herbicide label.

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.

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) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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) and 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 Habitats of Depths:		Terrestrial Habitats
			Less than 1 m	Greater than 1 m	
Field sprayer*	All crops		1	0	2
Aerial	Food/feed crops	Fixed wing	1	0	70
		Rotary wing	1	0	60
	Non-croplands, orchards, ornamental trees, shelterbelts	Fixed wing	5	0	150
		Rotary wing	1	0	85

* 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%.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

Annual Grass Control

Most effective control is achieved when application is made at the 2 to 5 leaf stage when annual grasses are small and actively growing, soil moisture is good, and the crop is small enough to permit thorough spray coverage.

In wide row crops (25 cm or more in width) such as soybeans, potatoes, and sugar beets, where the crop canopy may be slow to close, cultivation may be necessary to control annual grasses that emerge after treatment.

Wild oat and volunteer cereal control

Controlled at the 1-4 leaf stage in canola, flax (including low linolenic acid varieties) and peas only.

Most effective if applied prior to tillering. This treatment is ideally suited as a follow up to a soil incorporated treatment such as Trifluralin® or Edge® where weeds are at a small size and/or conditions at application are ideal (see below).

Poast Ultra liquid emulsifiable herbicide applied at 0.32 L/ha for the control of wild oats and volunteer cereals should only be applied under the following conditions:

- adequate moisture
- adequate fertility
- moderate temperatures 15°C to 28°C
- absence of stress
- canola, flax including low linolenic acid varieties and peas only (good crop stand is essential)
- early timing (1-4 true leaf stage of volunteer cereals and wild oats)
- light to moderate weed infestation levels
- low water volumes (50-100 L/ha)

Use the 0.47 L/ha rate of **Poast Ultra** liquid emulsifiable herbicide if any one of the above mentioned conditions are not present at the time of application.

Quackgrass Control

Apply when quackgrass is actively growing up to the 3 leaf stage (8 to 12 cm in height). Use only on cultivated land where preplant tillage operations have been carried out to thoroughly fragment quackgrass roots. Where well established quackgrass exists, thorough preplant cultivation to a depth of 10 cm is recommended to fragment quackgrass roots and provide uniform grass emergence for improved control. Depending on growing conditions and crop cultivation system, season-long control of quackgrass may not always be obtained. Competition of quackgrass is normally eliminated for at least 6 to 8 weeks. A cultivation no sooner than 7 days after treatment is recommended for wide row crops as an aid in providing control. Where poor soil fertility (i.e., low nitrogen) exists, quackgrass control may not be satisfactory.

Foxtail Barley Suppression

Apply **Poast Ultra** liquid emulsifiable herbicide for suppression of foxtail barley before foxtail barley has tillered.

**Poast Ultra liquid emulsifiable herbicide - Merge Adjuvant Application Rates
for Weeds Controlled**

GRASS SPECIES	GRASS LEAF STAGE	POAST ULTRA* LIQUID EMULSIFIABLE HERBICIDE RATE (L/ha)	Merge Adjuvant** Rate (by water volume) (L/ha)	Merge Adjuvant** Rate (by water volume) (L/ha)	
			Aerial	Ground	
			25-50	50-100	100-200
Annual Grasses**: Barnyard grass, crabgrass (large), fall panicum, foxtail (green/yellow; wild millet), Persian darnel, proso millet, volunteer corn, witchgrass.	1-6	0.32	0.25-0.50	0.50-1.0	1.0
Wild Oats and Volunteer Cereals:*** Wild oats, volunteer barley, volunteer wheat	1-4	0.32	0.25-0.50	0.50-1.0	1.0
Annual Grasses: Barnyard grass, crabgrass (large), fall panicum, foxtail (green/yellow; wild millet), Persian darnel, proso millet, volunteer corn, witchgrass.	1-6	0.47	0.25-0.50	0.50-1.0	1.0
Wild Oats and Volunteer Cereals:*** Wild oats, volunteer barley, volunteer wheat	1-6	0.47	0.25-0.50	0.50-1.0	1.0
Quackgrass Suppression: (Western Canada only)	2-5	0.47	0.25-0.50	0.50-1.0	1.0
Quackgrass Control plus annual grasses listed above	1 to 3	1.1	NA	NA	1.0-2.0
Foxtail Barley Suppression plus annual grasses listed above	1-4	1.1	NA	NA	1.0-2.0

* For band application, adjust rate per hectare in relation to the band width (annual grasses only).

Merge Adjuvant should be added at a rate of at least 1% of the water volume used.

** EASTERN CANADA ONLY. **Assist®** Oil Concentrate can be substituted for **Merge** Adjuvant (at same rates) for the control of annual grasses listed for the low **Poast Ultra** liquid emulsifiable herbicide rate.

*** In canola, flax (low linolenic acid varieties) and peas only.

Crop Recommendations

Crop	Maximum Application Rate (L/ha)	Pre-harvest Interval (days)
Asparagus	1.1	40
Basil (fresh and dried) ⁵	1.1	14
Beans – snap common	0.65	15
Beans – all dry common (See Note)	1.1	80
Beans – adzuki, faba, lima, mung	1.1	80
Beans – otebo (Ontario only)	1.1	80
Lupins (dry for grain) ¹ – grain, sweet, white, white sweet	1.1	80
Blueberry (lowbush)	1.1	15
Blueberry (highbush) ²	1.1	1
Borage	0.32	70
Broccoli	0.45	70
Brussels sprouts ⁴	1.1	70
Buckwheat	0.57	85
Cabbage	1.1	70
Canola (refer to tank mix section)	1.1	70
Canola – imazethapyr and imazamox tolerant (e.g. canola varieties with the Clearfield trait)	1.1	70
Canola – glufosinate tolerant varieties	1.1	70
Canola – triazine tolerant varieties	1.1	70
Caraway (Western Canada only)	0.65	NA
Carrot	1.1	49
Cauliflower	1.1	70
Celery ⁴	1.1	30
Chickpea	0.47	65
Chicory (<i>Chicorium intybus</i> species only) ³	1.1	60
Chickling vetch	1.1	70
Coriander (Western Canada only)	0.65	NA
Creeping Red Fescue (for seed production only)	1.1	NA
Cranberry	1.1	60
Cucumbers (not for greenhouse cucumbers)	1.1	30
Dill (Western Canada only)	0.65	NA
Ethnic cole crops ⁴ (Chinese broccoli, Chinese radish, napa cabbage, kohlrabi, mustard cabbage)	1.1	30
Fenugreek ¹	1.1	60
Flax (refer to tank mix section)	1.1	60
Flax – low linolenic acid varieties (refer to tank mix section)	0.65	86
Garden beets ⁵	1.1	49
Garlic	1.1	50
Grape vines (bearing plantings, and non-bearing 1 st and 2 nd year plantings) ^{1,8}	1.1	30
Hops	1.1	180
Lentils	1.1	65
Mint crops – spearmint and peppermint	0.65	NA
Mustard, including yellow and oriental (condiment and oilseed types)	1.1	76
Onion – dry bulb	1.1	50
Onion – green ⁵	1.1	30
Valencia peanuts (Ontario only) ¹	0.34	40
Peas – fresh processing (not fresh edible pea pods)	1.1	30
Peas – dry	1.1	60
Peppers – field ⁴	1.1	30
Peppers – green	1.1	30
Potatoes	1.1	80
Potatoes (sweet)	1.1	30

Crop	Maximum Application Rate (L/ha)	Pre-harvest Interval (days)
Pumpkin	1.1	30
Raspberry	1.1	37
Safflower	0.65	90
Snow peas ¹	0.32	30
Soybeans	1.1	80
Spinach ⁴	1.1	15
Squash	1.1	30
Sugar beets	1.1	85
Strawberry	1.1	25
Sunflowers	1.1	105
Tomatoes	1.1	60
Tumip	1.1	77
Trees and Shrubs – White spruce, Colorado spruce, Scotts pine, Douglas fir, Caragana, Cedar, Juniper, Green ash, Lilac, Saskatoon, Buffaloberry, Sea-buckthorn, Potentilla, Spirea, Maple, Walnut	1.1	NA
<i>Populus</i> Species – New and established plantings of <i>Populus</i> species (poplar and aspens) and their hybrids, including short rotation intensive culture (SRIC) <i>Populus</i> crops, seedlings and rooted cuttings	1.1	N/A
Bearing Fruit Trees ⁶ – apple, apricot, sweet and sour cherry, peach, pear, plum	1.1	30
Non-Bearing Fruit Trees – apple, peach, plum	1.1	NA
Non-bearing orchards and shelterbelts of choke cherry ⁷	1.1	NA
Forage Legumes for Seed and Forage		
Alfalfa – seedling	1.1	70
– established	1.1	70
Alsike clover – seedling (Western Canada only)	0.65	30
– established (Western Canada only)	1.1	30
Cicer milkvetch – seedling (Western Canada only)	0.65	30
– established (Western Canada only)	1.1	30
Sainfoin – seedling (Western Canada only)	0.65	30
– established (Western Canada only)	1.1	30
Sweet clover – seedling (Western Canada only)	0.65	30
– established (Western Canada only)	1.1	30

¹ Single post-emergent application; ground application only.

² Up to 2 applications per year not exceeding a total maximum application rate of 1.1 L/ha per season. Apply **Poast Ultra** as a broadcast application to the ground on each side of the highbush blueberry row. Allow a minimum of 14 days between applications.

³ Chicory (*Chicorium intybus* species only). Treated chicory root is not to be used for endive production.

⁴ One application per year.

⁵ Up to 2 applications per year not exceeding a total maximum application rate of 1.1 L/ha per season. Allow a minimum of 14 days between applications. DO NOT apply using aerial application equipment.

⁶ Apply by ground application, banded under trees. Use **Merge** Adjuvant at 1% v/v in 100-200 L water/ha.

⁷ Apply once per growing season by ground as a directed spray.

⁸ Apply as a banded application directed to the base of the grape vine.

NOTE:

Dry common bean varieties may vary in their tolerance to herbicides, including to **Poast Ultra** liquid emulsifiable herbicide. Since not all dry common bean varieties have been tested for tolerance to **Poast Ultra** liquid emulsifiable herbicide, first use of **Poast Ultra** liquid emulsifiable herbicide should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on tolerance of specific varieties of dry common beans to **Poast Ultra** liquid emulsifiable herbicide.

Crop	Maximum Application Rate (L/ha)	Pre-harvest Interval (days)
Bushberry Subgroup (Crop Subgroup 13-07B) ⁹ Aronia berry; blueberry, highbush ¹⁰ ; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.	0.32 OR 0.47 OR 1.1	15
Caneberry Subgroup (Crop Subgroup 13-07A) ^{9, 11} Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora, and cultivars, varieties and/or hybrids of these); raspberry, black and red; wild raspberry; cultivars, varieties and/or hybrids of these.	1.1	37

⁹ Bushberry and caneberry species and varieties within a species may vary in their tolerance to herbicides, including **Poast Ultra** liquid emulsifiable herbicide. Since not all bushberry and caneberry species and varieties have been tested for tolerance to **Poast Ultra** liquid emulsifiable herbicide, first use of **Poast Ultra** liquid emulsifiable herbicide should be limited to a small area of each species or variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your plant supplier for information on the tolerance of specific species and varieties of bushberries and caneberry to **Poast Ultra** liquid emulsifiable herbicide.

Use **Merge** Adjuvant at 0.5 – 2.0 L/ha or **Assist** Oil Concentrate at 0.5 – 2.0 L/ha.
DO NOT apply using aerial application equipment.

¹⁰ For highbush blueberries only, the pre-harvest interval is 1 day. Up to 2 applications per year not exceeding a total maximum application rate of 1.1 L/ha per season. Apply **Poast Ultra** as a broadcast application to the ground on each side of the highbush blueberry row. Allow a minimum of 14 days between applications.

¹¹ Apply as a directed spray application to the base of the caneberry. Use ground equipment only.

Crop	Maximum Application Rate (L/ha)	Pre-harvest Interval (days)
Lettuce ¹² (Direct seeded and transplanted – head, leaf and romaine)	0.32 - 1.1	30 (head) 15 (leaf and romaine)
Transplanted lettuce <ul style="list-style-type: none"> – 1 application per year – Application timing between 1 to 6 leaf stage 		
Direct seeded lettuce <ul style="list-style-type: none"> – Up to 2 application per year – 1st application between 1 to 6 leaf stage – 2nd application 14 to 21 days after thinning – Not to exceed a total maximum application rate of 1.1 L/ha 		

¹² **Merge** Adjuvant must be added at a rate of 0.5 – 2 L/ha or **Assist** Oil Concentrate at a rate of 0.5 – 2 L/ha.
DO NOT apply using aerial application equipment.

MIXING

Poast Ultra liquid emulsifiable herbicide Alone

1. When using **Poast Ultra** liquid emulsifiable herbicide, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add the correct amount of **Poast Ultra** liquid emulsifiable herbicide. Continue to agitate.
4. Add the correct amount of **Merge** Adjuvant along with the remaining amount of water necessary to fill the spray tank.
5. Continue to agitate or run the by-pass system.
6. After any break in 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 over night.
7. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
8. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

For disposal of cleaning solution, see section on **DISPOSAL**.

TANK MIX COMBINATIONS

Poast Ultra liquid emulsifiable herbicide can be mixed with the following herbicides for broadleaf weed control (refer to instructions on **Mixing - Poast Ultra Liquid Emulsifiable Herbicide Tank Mixes**). Use **Merge** Adjuvant only with all tank mixes.

Do not delay spraying broadleaf weeds if grassy weeds are not in the correct stage for treatment. If annual grass weeds and broadleaf weeds are not in the correct stages for treatment, apply separate applications of each herbicide timed to control the required species.

Allow 4 days between application of **Poast Ultra** liquid emulsifiable herbicide and any other chemical not recommended as a tank mix combination on this label. Products registered as a tank mix with **Poast Ultra** liquid emulsifiable herbicide can be applied immediately prior to or following the application of **Poast Ultra** liquid emulsifiable herbicide.

Apply **Poast Ultra** liquid emulsifiable herbicide at 0.32-0.47 L/ha with the addition of **Merge** Adjuvant at 0.75-1.0 L/ha with the following broadleaf compounds for broad spectrum weed control in the following crops. Refer to the specific partner label for broadleaf weeds controlled and rates.

Always refer to the broadleaf herbicide label for precautions, use instructions and crop rotation restrictions.

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.

Rate Applications for Poast Ultra liquid emulsifiable herbicide + Merge Adjuvant Tank Mixes – Annual Grasses Only

Crop	Poast Ultra Liquid Emulsifiable Herbicide Rate (L/ha)	Tank Mix Partner	Tank Mix Partner Rate (L/ha)	Comments
Flax (including low linolenic acid varieties)	0.32-0.47	Buctril M Logic M Lontrel 360 Lontrel® 360 + MCPA Ester OR MCPA Ester	Refer to Respective Labels	Some leaf burn and retarded growth may delay crop maturity. Some reduced grass control may be experienced with the above broadleaf tank mixtures. Avoid application under humid and especially hot humid conditions. Caution should be taken to avoid non-uniform applications, e.g., overlapping. Do not apply tank mixtures during flowering.
Canola (rapeseed)	0.32	Muster + Lontrel 360	20 g/ha + 0.42	For control of grasses and broadleaf weeds in canola (rapeseed). Refer to the specific partner labels for broadleaf weeds controlled at these rates. Always refer to the broadleaf herbicide label for precautions, use instructions and crop rotational instructions. When preparing this tank-mix, first add the required amount of Muster to the tank or container (see mixing instructions) of clean water such that a slurry is formed. Once the Muster is in suspension, add the required amount of Lontrel 360 followed by Poast Ultra liquid emulsifiable herbicide and then Merge Adjuvant . The use of other adjuvants is not required.
	0.32-0.47	Lontrel 360 + Muster	0.42 + 20 g/ha	Refer to Lontrel 360 and Muster labels for precautions, use instructions and crop rotational instructions. See mixing instructions on this label.
	0.32-0.47	Lontrel 360	0.42-0.83	For control of grasses and Canada thistle, wild buckwheat, perennial sow-thistle (top growth suppression), and scentless chamomile. Refer to Lontrel 360 label for use instructions.
	0.32-0.47	Muster	20 or 30 g/ha	For control of grasses and broadleaf weeds. Consult the Muster label for restrictions and desired use rates. When preparing the combination, first add the required amount of Muster to the tank or container of clean water such that a slurry is formed. Once the Muster is in suspension, add the required amount of Poast Ultra liquid emulsifiable herbicide, followed by the correct amount of Merge Adjuvant . Additional surfactant is not required. For best results, follow the timing restrictions and specific weed control recommendations stated on each label. Refer to Muster label for use instructions.
Dry Peas	0.47	Pursuit 240	0.10	For control of chickweed, cleavers, hemp-nettle, redroot pigweed*, smartweed, stinkweed, volunteer canola, wild buckwheat* and wild mustard. Use Merge Adjuvant at 1.0 L/ha. Refer to Pursuit 240 label for recropping and soil zone** restrictions. See mixing instructions on this label.
	0.47	Pursuit 240	0.21	For the control of the above weeds plus shepherd's purse and partial control of lamb's-quarters. Use Merge Adjuvant at 1.0 L/ha. Refer to Pursuit 240 label for recropping and soil zone** restrictions. See mixing instructions on this label.
Glufosinate Tolerant Canola (e.g. canola varieties with the LibertyLink® symbol)	0.22	Liberty 150 SN Herbicide	2.67	For control of wild mustard, smartweed, lamb's-quarters, perennial sow-thistle, common chickweed, redroot pigweed, and volunteer barley. Use Merge Adjuvant at 1.0 L/ha. Refer to Liberty 150 SN Herbicide label for use instructions.

* For heavy infestations, use the 0.21 L/ha rate of **Pursuit 240** herbicide.

** **Pursuit 240** is registered for use in black and grey wooded soils ONLY.

MIXING

Poast Ultra Liquid Emulsifiable Herbicide Tank Mix Combinations

1. When using **Poast Ultra** liquid emulsifiable herbicide, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add to tank, if required (refer to instructions on tank mixtures) **Muster** herbicide. Agitate for 2 to 3 minutes.

Note: Always add **Muster** to clean water. When refilling the tank for repeated spray applications, add **Muster** to a small container of clean water, mix well to form a slurry, then add to the spray tank.

4. Add the correct amount of **Poast Ultra** liquid emulsifiable herbicide. Continue to agitate.
5. If required, add recommended broadleaf herbicides such as **Pursuit 240, MCPA ester, Lontrel 360, Liberty, Buctril M** or **Logic M**.
6. Add the correct amount of **Merge** Adjuvant along with the remaining amount of water necessary to fill the spray tank.
7. Continue to agitate or run the by-pass system.
8. After any break in 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 over night. In the case of tank mixtures with broadleaf herbicides, settling will occur if agitation is not continuous.
9. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
10. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

For disposal of cleaning solution, see section on **DISPOSAL**.

SPRAYING INSTRUCTIONS

Water volume and spray pressure Conventional ground application

Use sprayers equipped with standard flat nozzles. The use of 80°-110° stainless steel flat fan nozzle is recommended for optimum spray coverage with nozzles tilted 45° forward to ensure better coverage.

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.

Thoroughly clean all screens to prevent nozzle clogging, especially when water volumes of 50 to 100 L/ha are used. In general, use water volumes of 50 to 100 L/ha, and a minimum of 240 kPa pressure. For applications to dense weed infestations or to dense crop canopies (for example, soybeans), use 100 to 200 L of water per hectare at pressures of 275 to 425 kPa. For quackgrass control use 100 to 200 L of water per hectare at pressures of 275 to 425 kPa.

Band applications

Adjust rate per hectare in relation to the band width. Where quackgrass is a problem, band applications are not recommended. Use only broadcast applications for best results.

Aerial applications

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.

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.

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.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) 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 a minimum spray volume of 25 to 50 litres of water per hectare with pressure up to 200 kPa.

Treat when wind is 3 to 15 kilometres per hour. Do not spray in winds above 10 km/hour within 1/2 hour of sunrise or sunset.

RESTRICTIONS AND LIMITATIONS

1. Use only for crops listed on this label.
2. When grasses are stressed due to drought, flooding, hot or prolonged cool temperatures (15°C or less), control can be reduced or delayed since grasses are not actively growing. Grass escapes or retillering may occur under prolonged stress conditions or low fertility. **Do not make applications to grasses stressed longer than 20 days due to lack of moisture, as unsatisfactory control can result.**
3. If stress conditions exist at the time of application and have existed for less than 20 days, then use the higher recommended rates of **Poast Ultra** liquid emulsifiable herbicide as indicated on the 'Application Rates' table.
4. Thorough preplant tillage operations are required for fields where sod or forage grass crops may have grown in the previous year.
5. Rainfall within one hour of application may reduce the effectiveness of the spray. (Refer to respective broadleaf herbicide labels for rain-fast recommendations for tank mixtures).
6. Allow 4 days between application of **Poast Ultra** liquid emulsifiable herbicide and any other chemical not recommended as a tank mix combination on this label.
7. Allow a minimum of 14 days between application of **Poast Ultra** liquid emulsifiable herbicide plus **Merge** Adjuvant and replanting of cereal or grass crops. A cultivation to a minimum depth of 10 cm is recommended 7 days prior to seeding.
8. Do not graze the treated crop* or cut for hay; sufficient data are not available to support such use.
9. In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to, reduced pest efficacy or increased host crop injury. The user should contact BASF at 1-877-371-2273 or www.agsolutions.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

*Forage legumes indicated in the label may be cut for hay provided pre-harvest intervals are followed.

WARNING

Injury to grass, cereal or corn crops and turf may occur if **Poast Ultra** liquid emulsifiable herbicide is applied directly onto, or is allowed to drift onto, these susceptible crops.

Do not apply when weather conditions may cause spray drift from treated fields to adjacent crops. Wash sprayer thoroughly after use to avoid damage to the next crop sprayed, especially if it is a cereal, forage or corn crop.

ENVIRONMENTAL PRECAUTIONS

1. TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTION FOR USE.
2. This product contains a petroleum distillate that is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during applications.
3. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuaries or marine habitats.
4. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
5. 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 or fine textured such as clay).
6. Avoid application of this product when heavy rain is forecast.
7. 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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **Poast Ultra** liquid emulsifiable herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to **Poast Ultra** liquid emulsifiable 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 **Poast Ultra** liquid emulsifiable herbicide or other Group 1 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.
- For further information or to report suspected resistance, contact BASF at 1-877-371-2273.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Do not take internally.
3. May cause irritation of eyes and skin. Avoid inhalation of vapour or spray mist and contact with eyes, skin or clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.
5. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and rubber boots during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.
6. 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.
7. Do not contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
8. Do not apply where run-off or erosion is likely to occur.
9. DO NOT apply this product in a way that will cause this product to contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
10. DO NOT enter or allow entry into treated areas during the restricted-entry interval (REI) of 12 hours.
11. 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

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.

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

NOTE: If tank mixing, refer to individual product labels for additional first aid instructions.

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE

1. Store in original, tightly-closed container and do not allow water to be introduced into this container.
2. Do not ship or store near food, feed, seed or fertilizers.
3. Store in a cool, dry, locked, well-ventilated area without floor drain.
4. 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 any 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 a way that is inconsistent with the directions on the label.

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