

2012-01-30

GROUP	4	HERBICIDE
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PAL HERBICIDE

AGRICULTURAL

SOLUTION

**FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF
BRITISH COLUMBIA ONLY**

This component must be used in the BOUNTY™ Herbicide Tank Mix

GUARANTEE:

Dicamba (present as dimethylamine salt) 84 g/L a.e.

MCPA (present as potassium salt) 336 g/L a.e.

**READ THE LABEL AND ENCLOSED BOUNTY BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN****CAUTION****POISON**REGISTRATION NUMBER : **24754**
PEST CONTROL PRODUCTS ACTNET CONTENTS: **10 litres****Syngenta Canada, Inc.**140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

LABEL

NOTICE TO USER

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

FIRST AID

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

If 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 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 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.

TOXICOLOGICAL INFORMATION

May cause severe irritation to the eyes. May also cause irritation to the skin and mucous membranes. Symptoms of overexposure could include slurred speech, twitching, jerking and muscle spasms, drooling, low blood pressure, dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, exhaustion, unconsciousness, and loss of voice. Treat symptomatically.

PRECAUTIONS

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if swallowed or absorbed through the skin.
- May irritate eyes. Do not wear contact lenses when using.
- Avoid contact with skin, eyes and clothing.
- Mixers, loaders and applicators must wear a long sleeved shirt, long pants, socks, shoes, chemical resistant gloves, and goggles when mixing, loading or during equipment clean up or repair.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

ENVIRONMENTAL HAZARDS

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

Leaching: The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

Surface runoff: To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine-textured, or low in organic matter such as clay).

Avoid applying this product when heavy rain is forecast.

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

STORAGE

Store PAL in its original container only, away from other pesticides, fertilizer, food or feed. Keep the container closed to prevent spills and contamination. If product is frozen, thaw in a warm room, allowing the product to reach room temperature, then roll or shake the container.

DECONTAMINATION AND DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

CONTAINER DISPOSAL:

FOR DISPOSAL OF PLASTIC JUGS:

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.

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

GROUP	1 4	HERBICIDE
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BOUNTY™**AGRICULTURAL**

BOUNTY Herbicide Tank Mix is a single pass liquid post emergence grass herbicide with adjuvant and broadleaf herbicide for use in spring wheat and Durum wheat to control wild oats, green foxtail, yellow foxtail and many broadleaf weeds

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READ THE LABELS AND THIS BOOKLET BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

CAUTION



POISON

WARNING: EYE & SKIN IRRITANT

NET CONTENTS: This tank mix concept contains:

HORIZON® 240EC Herbicide 2.35 L

REGISTRATION NO.: 24753

PEST CONTROL PRODUCTS ACT

GUARANTEE: clodinafop-propargyl 240 g/L

Warning, contains the allergen epoxidized soybean oil

SCORE® Adjuvant 8 L

REGISTRATION NO.: 24752

PEST CONTROL PRODUCTS ACT

GUARANTEE: petroleum hydrocarbon blend..... 83%

surfactant blend..... 17%

PAL Herbicide 10 L

REGISTRATION NO.: 24754

PEST CONTROL PRODUCTS ACT

GUARANTEE: Dicamba (present as dimethylamine salt)..... 84 g/L a.e.

MCPA (present as potassium salt)..... 336 g/L a.e.

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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.

TOXICOLOGICAL INFORMATION FOR BOUNTY HERBICIDE TANK MIX

This tank mix contains materials that may cause severe pneumonitis if aspirated. Treat symptomatically for ingestion and/or skin and eye contact. This tank mix contains PETROLEUM DISTILLATES. Vomiting may cause aspiration pneumonia.

For PAL Herbicide: May cause severe irritation to the eyes. May also cause irritation to the skin and mucous membranes. Symptoms of overexposure could include slurred speech, twitching, jerking and muscle spasms, drooling, low blood pressure, dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, exhaustion, unconsciousness, and loss of voice. Treat symptomatically.

PRECAUTIONS

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if swallowed or absorbed through the skin.
- May irritate eyes. Do not wear contact lenses when using.
- Avoid contact with skin, eyes and clothing. Mixers, loaders and applicators must wear coveralls over a long sleeved shirt, long pants, socks, shoes, chemical resistant gloves, and goggles when mixing, loading or during equipment clean up or repair.
- Wash gloves thoroughly with soap and water before removing them during any operation.
- Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label.
- Do not eat, drink or smoke while mixing, loading or during application.

- Re-entry is not permitted until 12 hours after application for all agricultural scenarios.
- Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playing fields and public buildings.
- Do not apply more than one broadcast applications per season. This does not include spot treatments.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

ENVIRONMENTAL HAZARDS

This product is also toxic to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Do not contaminate streams, rivers, lakes, ponds, wetlands, sloughs, irrigation water, vegetated ditch banks, and water used by livestock or for domestic purposes. Do not apply within 15 metres of a wetland area or any of the aforementioned bodies of water. This tank mix contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

STORAGE

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. Store separate from food, feed, and fertilizer.

DECONTAMINATION AND DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

CONTAINER DISPOSAL:

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

PRODUCT INFORMATION

BOUNTY Herbicide Tank Mix is a systemic, post-emergence grass herbicide with adjuvant and broadleaf herbicide for the selective control of wild oats, green foxtail, yellow foxtail and many broadleaf weeds in all types of spring wheat and Durum wheat. Do not use BOUNTY Herbicide Tank Mix on any other crops, as injury will occur.

DIRECTIONS FOR USE

CROPS: Spring Wheat and Durum Wheat

BOUNTY Herbicide Tank Mix can be used on all types of spring wheat and Durum wheat. Observe minimum interval to harvest of 60 days after treatment. Do not apply on barley or any crop other than spring wheat or Durum wheat, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or Durum wheat. Do not treat wheat underseeded to forages. Do not permit lactating dairy animals to graze fields within 30 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

WEEDS CONTROLLED

GRASSES:

Wild Oats, Green Foxtail and Yellow Foxtail

BROADLEAF WEEDS:

buckwheat, Tartary	mustard, tumble	green smartweed	ragweed, giant
buckwheat, wild	mustard, wild	hemp-nettle**	shepherd's-purse
burdock	mustard, wormseed	kochia	sow-thistle, perennial***
cleavers*	pigweed, prostrate	lady's-thumb	stinkweed
cocklebur	pigweed, redroot	lamb's-quarters	thistle, Canada***
corn spurry**	pigweed, Russian	mustard, ball	thistle, Russian
cow cockle**	ragweed, common	mustard, hare's-ear	volunteer canola****
flixweed	ragweed, false	mustard, Indian	volunteer sunflowers
wild radish			

* Suppression

** For best results apply BOUNTY Herbicide Tank Mix at the 2-to 3-leaf stage of the weed.

*** Top Growth Control. Weeds may not be controlled if application is made at a more advanced stage of crops and weeds.

**** Best results will be obtained if application is made prior to bolting of canola, when this weed is at the 2-to 4-leaf stage.

TIMING OF APPLICATION: Time the application according to the growth stage of the wild oats and green and yellow foxtail.

TIMING	GROWTH STAGE	ADDITIONAL REMARKS
SPRING WHEAT AND DURUM WHEAT	2 to 5 leaf stage	
WILD OATS	1 to 6 leaf stage on main stem	Prior to emergence of 4th tiller
GREEN FOXTAIL YELLOW FOXTAIL	1 to 5 leaf stage on main stem	For optimum control apply before tillering, and while foxtail is actively growing

- For optimum results, apply BOUNTY Herbicide Tank Mix to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application will not be controlled.
- Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding or prolonged cool temperatures. Grass escapes or re-tillering may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of BOUNTY Herbicide Tank Mix is delayed until the stress conditions have ended and weeds are once again actively growing.
- Rainfall within one hour of application may reduce the effectiveness of BOUNTY Herbicide Tank Mix.
- Do not apply to crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

RATE OF USE:

Apply the recommended rate of BOUNTY Herbicide Tank Mix in 100L of water per hectare.

RATE OF USE
Apply:
1.25 L/ha of PAL [1 jug treats 8 ha (20 acres)]
+
290 mL/ha of HORIZON 240EC [1 jug treats 8 ha (20 acres)]
+
1 L/ha of SCORE with 100 L of water/ha (1.0% volume/volume) [1 jug with 800 L (200 gallons) of spray solution]
<i>Note:</i> ONE CASE OF BOUNTY HERBICIDE TANK MIX treats 8 ha (20 acres) with 800 L (200 gallons) of water

NOTE: Always use SCORE Adjuvant with BOUNTY Herbicide Tank Mix, and maintain concentration at 1.0% of the water volume.

Temporary crop injury may occur with BOUNTY Herbicide Tank Mix under extreme weather conditions or when the crop is suffering from stress due to insufficient or abnormally high moisture levels or extreme temperatures.

Do not tank mix with any chemical additives, pesticides, or fertilizers which are not recommended on this label.

MIXING INSTRUCTIONS:

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
2. Add the correct amount of PAL Herbicide to the spray tank and agitate for 2-3 minutes.
3. Add correct amount of HORIZON 240EC Herbicide.
4. Agitate for 2-3 minutes.
5. Add correct amount of SCORE Adjuvant.
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. After any break in spraying operations, agitate thoroughly before spraying again.
- 8. Use the spray suspension as soon as it is prepared.**
9. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

SPRAYING INSTRUCTIONS:

1. BOUNTY Herbicide Tank Mix is for ground application only. DO NOT APPLY BY AIRCRAFT.
2. Water Volume: 100 litres per hectare.
3. Spray Nozzles: 80° or 110° flat fan stainless steel nozzles are recommended for optimal spray coverage. Use 50-mesh nozzle screens. Application of the spray mixture at a 45° angle in the direction of travel will result in improved spray coverage. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
4. Pressure: 275 - 310 kPa.
5. Apply uniformly at 6-8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an over application.

SPRAY PRECAUTIONS:

- BOUNTY Herbicide Tank Mix may cause injury to desirable trees and plants, particularly soybeans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes, and tobacco, and other broadleaf plants, especially in their developmental and growing stage. Follow these precautions:
- DO NOT apply during periods of dead calm. Avoid spraying when winds are gusty or in excess of 8 km/h and moving towards sensitive crops. Leave an adequate buffer zone between treatment areas and sensitive plants.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Select nozzles which produce only minimal amounts of fine spray particles and keep the spray pressure between 275 - 310 kPa, unless otherwise required by the nozzle manufacturer.
- Boom height must be 60 cm or less above the crop or ground.
- Do not spray when the temperature is expected to exceed 30° C.
- Avoid spraying under conditions of high humidity or fog.
- Apply BOUNTY Herbicide Tank Mix when air temperature is between 10 and 25°C to avoid

temperature stress on the crop. Do not apply when there is a risk of a severe fall in night temperature.

- BOUNTY Herbicide Tank Mix should not be applied on or near desirable trees or plants.
- Do not treat areas where soil penetration or surface washing may bring BOUNTY Herbicide Tank Mix into contact with the roots of desirable plants.
- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine or marine habitats.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SPRAYER CLEAN-UP:

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

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush by operating sprayer until the system is emptied of the rinse water. **Do not** clean the sprayer near desirable vegetation, wells, or other water sources.
2. Fill the tank with water while adding 1 L of household ammonia (containing a minimum of 3% ammonia) for every 100 L of water. Operate the spray pump to circulate the ammonia solution through the sprayer solution for 15-20 minutes and discharge a small amount of the ammonia solution through the spray boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two tanks full of water.

Surface Runoff

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine-textured, or low in organic matter such as clay).

Avoid applying this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetative strip (buffer zone) between the treated area and the edge of the water body.

Leaching

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

Buffer zones

Uses of the following spray methods or equipment DO NOT require a buffer zone: handheld 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:		Eustuarine/marine habitats of depths:		Terrestrial habitats:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Wheat (spring and Durum)	72	72	72	72	76

* 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 %.

Resistance-Management Recommendations

For resistance management, BOUNTY Herbicide Tank Mix is a Group 1 and 4 herbicide. Any weed population may contain or develop plants naturally resistant to BOUNTY Herbicide Tank Mix and other Group 1 and 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

Where possible, rotate the use of BOUNTY Herbicide Tank Mix or other Group 1 and 4 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

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

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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