Benchmark A Herbicide

GROUP 2

HERBICIDE

Suspension Concentrate

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

Benchmark A Herbicide is a selective herbicide for postemergent control of annual broadleaf weeds including cleavers, wild buckwheat and chickweed in spring wheat (including durum) and spring barley.

AGRICULTURAL

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

GUARANTEE: florasulam 50 g/L
Contains 1,2-benzisothiazoline-3-one at 0.02% as a preservative

REGISTRATION NO. 28787 PEST CONTROL PRODUCTS ACT

CAUTION POISON

MAY CAUSE SLIGHT EYE IRRITATION

NET CONTENTS: 0.8 L, 1.6 L, 8 L

Dow AgroSciences Canada Inc.
Suite 2100, 450 - 1 Street S.W.
Calgary, Alberta
T2P 5H1
1-800-667-3852

*Trademark of Dow AgroSciences LLC
PRECAUTIONS
MAY CAUSE SLIGHT EYE IRRITATION
KEEP OUT OF REACH OF CHILDREN
DO NOT APPLY BY AIR

At all times: Wear clean clothing with full length sleeves and pants.
During mixing and loading, and clean-up and repair: Wear chemical-resistant gloves. Rinse gloves before removal. Use safety glasses.
At completion of spraying or end of the day: Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse.

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.

FIRST AID
Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.
If swallowed: Call a poison control centre or doctor immediately for treatment advice. 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.

TOXICOLOGICAL INFORMATION
No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL
Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS
Overspray or drift to sensitive habitats should be avoided. A buffer zone of 30 metres is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelter belts, woodlots, hedgerows, and shrublands. A buffer zone of 5 metres is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, ponds, Prairie potholes, lakes, rivers, streams, wetlands and wildlife habitats at the edge of these bodies of water. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

Do not apply during periods of dead calm or when winds are gusty.

STORAGE
Store in original containers in a secure, dry heated storage. Benchmark A Herbicide will freeze at -10°C. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.
DISPOSAL
Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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

GENERAL INFORMATION
Benchmark A Herbicide is a selective postemergence herbicide for the control of hard-to-kill annual broadleaved weeds such as chickweed, wild buckwheat and cleavers in spring wheat (including durum), and spring barley. Benchmark A Herbicide is mixed with water and applied as a uniform broadcast spray. It is non-corrosive, nonflammable, and nonvolatile.

Benchmark A Herbicide must be applied early postemergence, to the main flush of actively growing broadleaved weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of Benchmark A Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. See “DIRECTIONS FOR USE” section of this label for complete use details.

Benchmark A Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

MODE OF ACTION
Benchmark A Herbicide inhibits the production of the ALS enzyme in plants. This enzyme is essential for the production of certain amino acids which are essential for plant growth. Benchmark A Herbicide is a Group 2 mode of action herbicide.

GENERAL USE PRECAUTIONS
Sensitive Plants
Do not apply Benchmark A Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.
Non-Target Sites
Do not apply where proximity of susceptible crops (e.g. canola and legumes) or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Hazards section of the label.

Crop Rotation
Fields previously treated with Benchmark A Herbicide can be seeded the following year to barley, canola, peas, wheat or fields can be summerfallowed.

Do not use in successive years at the same site.

This product has potential to leach. Do not apply excessive irrigation.

Tank Mixtures
Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label. When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

Spray Equipment Precaution
Do not apply through any type of irrigation system.
DO NOT APPLY BY AIR.

To Reduce Spray Drift:
1. Use nozzles delivering higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 15 km/hr or less.
5. Spot treatments should only be applied with a calibrated boom to prevent over-application.

Equipment Clean-Up
Equipment used to apply Benchmark A Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, as follows:

1. Immediately after spraying, drain. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Add 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water while filling the tank with clean water. Agitate and then briefly flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Remove nozzles and screens and clean separately with an ammonia solution (100 mL in 10 L water).
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.

Note: If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4.

Caution: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

DIRECTIONS FOR USE
READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.
BENCHMARK A HERBICIDE ALONE

Crops Registered
spring wheat (including durum) and spring barley

Application Directions
Apply 100 mL of Benchmark A Herbicide per hectare in a minimum of 100 L per hectare of water. Add Agral 90 at 0.2% v/v. See the following list for weeds species controlled. Apply to actively growing wheat and barley from the 2 to 6 leaf stage. Apply when weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Application Timing
Apply to actively growing weeds in the 2-4 leaf stage. Extreme growing conditions such as drought or near freezing temperature prior to, at or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Only weeds which are emerged at the time of application will be affected. If foliage is wet at the time of application, control may be decreased. Under conditions of low crop and high weed density, control may be reduced.

Weeds Controlled or Suppressed by Benchmark A Herbicide Alone at 100 mL/ha

Weeds Controlled:
- buckwheat, wild
- canola, volunteer*
- chickweed, common
- cleavers
- shepherd's-purse
- smartweed
- stinkweed
- mustard, wild

*Including herbicide-tolerant canola varieties except Clearfield canola.

Weeds Suppressed:
- hempnettle
- sowthistle, annual
- pigweed, redroot
- sowthistle, perennial*

*Applications made at advanced leaf stages will reduce product effectiveness.

Mixing Instructions
1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Benchmark A Herbicide
4. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
5. Add Agral 90 as the last ingredient at the rate of 0.2% v/v (2 L per 1000 L of spray volume).
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Preharvest/Grazing Intervals
Livestock may be grazed on treated crops 7 days following application. Do not harvest the treated crop within 60 days after application.

TANK MIX COMBINATION - BENCHMARK A HERBICIDE + BROMOXYNIL

Crops Registered
spring wheat (including durum) and spring barley
Application Directions
For control of a wide spectrum of broadleaved weeds (see the following list of weeds controlled), apply Benchmark A Herbicide at 100 mL/ha tank mixed with 280 g ai/ha of bromoxynil liquid formulations, including emulsifiable suspensions (for example, 1 L/ha Pardner® Emulsifiable Selective Weedkiller or 1.2 L/ha Koril® 235 Liquid Herbicide), in 100 L per hectare of water. Apply to spring wheat, durum wheat, and spring barley from the 2 to 6 leaf stage. Apply when weeds are actively growing (2-4 leaf stage). Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, directions for use, and limitations on the tank mix partner labels.

Weeds Controlled or Suppressed by Benchmark A Herbicide + bromoxynil
Weeds Controlled:

Up to 4 leaf stage
- bluebur
- buckwheat, wild
- canola, volunteer*
- chickweed, common
- cleavers
- cocklebur
- cow cockle

- kochia**
- lady’s-thumb
- mustard, wild
- nightshade, American
- pigweed, red-root
- ragweed, common
- shepherd’s purse

- smartweed, green
- smartweed, pale
- stinkweed
- thistle, Russian**
- velvetleaf***

*Including herbicide-tolerant canola varieties except Clearfield canola.
**Apply before plants are 5 cm high
***Apply before plants are 8 cm high

Up to 8 leaf stage
- buckwheat, common
- buckwheat, Tartary

- groundsel, common
- lamb’s-quarters

Weeds Suppressed:
- hempnettle

- sowthistle, perennial*

- sowthistle, annual

*Applications made at advanced leaf stages will reduce product effectiveness.

Mixing Instructions
1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required amount of Benchmark A Herbicide and continue to agitate.
4. Add the correct amount of bromoxynil product
5. Fill the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).
7. Follow sprayer clean-up directions.

Note: Do not add a surfactant to this tank mixture.

Pre-Harvest/Grazing Intervals (Benchmark A Herbicide + bromoxynil)
1. Do not cut the treated crop for hay or graze treated crop within 30 days of application.
2. Do not harvest the treated crop within 60 days of application.
TANK-MIX COMBINATIONS WITH BENCHMARK A HERBICIDE + BROMOXYNIL + OTHER HERBICIDES

Crops Registered
spring wheat (including durum)

Tank mixtures of Benchmark A Herbicide + bromoxynil with other herbicides (see the following table) will provide control of broadleaved weeds and specified annual grasses. Apply when crops and weeds are actively growing. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds. Follow all precautions, minimum interval to harvest and directions for use on the Benchmark A Herbicide and tank-mix partner labels.

Tank-Mix Combinations with Benchmark A Herbicide + Bromoxynil Liquid Formulations, Including Emulsifiable Suspensions, + Other Herbicides

<table>
<thead>
<tr>
<th>Herbicide Tank-Mix Partner</th>
<th>Crops Registered</th>
<th>Rate (Product/ha)</th>
<th>Adjuvant and Rate</th>
<th>Additional Weeds Controlled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon® 240 EC Herbicide</td>
<td>wheat (spring &amp; durum)</td>
<td>230 mL</td>
<td>Score 0.8% v/v</td>
<td>wild oat and green foxtail</td>
</tr>
<tr>
<td>Puma® 120 Super Herbicide</td>
<td>wheat (spring &amp; durum)</td>
<td>385 mL</td>
<td>Not required</td>
<td>green foxtail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>770 mL</td>
<td></td>
<td>green foxtail, wild oat</td>
</tr>
</tbody>
</table>

Mixing Instructions
1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add Benchmark A Herbicide
4. Add bromoxynil product and continue to agitate.
5. Add tank mix partner and continue to agitate.
6. Add adjuvant if required and continue to agitate.
7. Fill sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
8. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g. canola and legumes).

RESISTANCE MANAGEMENT RECOMMENDATIONS
For resistance management, Benchmark A Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Benchmark A 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 Benchmark A Herbicide or other Group 2 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 Dow AgroSciences Canada Inc. at 1-800-667-3852.

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.

1Pardner is a registered trademark of Bayer Inc.
2Koril is a registered trademark of Nufarm Agriculture Inc.
3Horizon is a trademark of a Syngenta group company
4Puma is a trademark of the Aventis Group

Label Code: CN-28787-002-E
Replaces: CN-28787-001-E

Specimen label notes:

Additional size added
Benchmark* B Herbicide

CONTAINS BROMOXYNIL EMULSIFIABLE CONCENTRATE

For use in selected cereal crops to control seedling hard-to-kill annual weeds.

AGRICULTURAL

READ THE LABEL AND BOOKLET BEFORE USING

GUARANTEE: Bromoxynil … 235 g/L (present as octanoate ester)

REGISTRATION NO. 28876 PEST CONTROL PRODUCTS ACT

WARNING POISON

DANGER – EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: (1 – 450) Litres

Nufarm Agriculture Inc.
5507 1st Street SE
Calgary, Alberta T2H 1H9

Distributed by:
Dow AgroSciences Canada Inc.
Suite 2100, 450 - 1 Street S.W.
Calgary, Alberta
T2P 5H1
1-800-667-3852

*Trademark of Dow AgroSciences LLC
SECTION 1
GENERAL INFORMATION
Benchmark B Herbicide controls spring germinating weeds such as wild buckwheat, tartary buckwheat and green smartweed. Benchmark B Herbicide works best applied to seedling weeds. Benchmark B Herbicide is a low volatile ester formulation. Benchmark B Herbicide applied as directed controls some weeds, which deprive young cereal crops of vital moisture and fertilizer, reduces contamination of crops with weeds seeds, improves quality and makes harvesting easier. Benchmark B Herbicide is a contact herbicide. Thorough coverage of the weed seedlings is essential for optimum control.

DIRECTIONS FOR USE
RESISTANCE MANAGEMENT RECOMMENDATIONS
For resistance management, Benchmark B Herbicide is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to Benchmark B Herbicide and other Group 6 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 Benchmark B Herbicide or other Group 6 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 Dow AgroSciences Canada Inc. at 1-800-667-3852.

SECTION 2
APPLICATION TIMING
For best results, spray up to 4-leaf stage of weeds. Apply in good growing conditions. Application must be made before the crop shields the weeds.
WEEDS CONTROLLED BY Benchmark B Herbicide ALONE

Seedlings up to 4-leaf stage:
Green smartweed Common Ragweed
Pale smartweed Triazine Resistant Pigweed
Lady’s-thumb Cocklebur
Bluebur Russian thistle ♦♦
Kochia ♦♦ Wild Mustard ♦
Cow Cockle ♦ Stinkweed ♦
Velvet leaf ♦♦♦ American nightshade

Seedlings up to 8 leaf stage:
Wild buckwheat Tartary buckwheat
Common buckwheat Common groundsel
Lamb’s-quarters

♦ Under normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.
♦♦ Spray before plants are 5 cm high.
♦♦♦ Spray before plants are 8 cm high.

SECTION 3
APPLICATION AND MIXING INSTRUCTIONS FOR GROUND

MIXING INSTRUCTIONS
1. Fill spray tank half full with clean water.
3. If tank mixing, add the recommended amount of the tank mix partner product to the spray tank first, agitate, and then add Benchmark B Herbicide (unless otherwise directed).
4. Complete filling spray tank with water, continue agitation.

APPLICATION RATE
1.2 L/ha.
Wash out spray tank and lines and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume of water per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of weeds. For ground applications, spray at 5-10 km/h. Calibrate sprayer and ensure that all tips are in good condition and spraying the same volume.

ENVIRONMENTAL PROTECTION INSTRUCTIONS
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.

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).

Avoid application of this product when heavy rain is forecast.
Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

**Generic Aerial Application Label Instructions**

**Directions for Use**

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.

**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 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 20 litres per hectare.

**FOR AERIAL APPLICATION refer to the following 12 points.**

1. Weeds must be treated at the recommended growth stages while actively growing. Weed stage should be checked prior to spraying.
2. Benchmark B Herbicide must be applied in volume rates of not less than 20 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.
3. The application rate per hectare of Benchmark B Herbicide must not be reduced.
4. Effective swath width (as determined by boom width and spray pattern overlaps) must be accurately maintained. Conduct tests to determine the effective swath width of your aircraft. (For example, the effective swath width may be less than one half of the overall swath).

5. Flat-fan or hollow cone nozzles are recommended.

6. Nozzles should be positioned to compensate for prop-wash and wing-tip vortex effects. Nozzles should not be placed within 1 m of wing-tips.

7. Nozzles orientations (measured from direction of flight) to achieve desired minimum droplet density with maximum coverage.

<table>
<thead>
<tr>
<th>VOLUME RATE</th>
<th>NOZZLE TYPE</th>
<th>NOZZLE ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 L/ha</td>
<td>Flat Fan</td>
<td>90°</td>
</tr>
<tr>
<td></td>
<td>Hollow Cone</td>
<td>135°</td>
</tr>
<tr>
<td>30 L/ha</td>
<td>Flat Fan</td>
<td>90 – 135°</td>
</tr>
<tr>
<td></td>
<td>Hollow Cone</td>
<td>135°</td>
</tr>
<tr>
<td>40 L/ha</td>
<td>Flat Fan</td>
<td>135°</td>
</tr>
<tr>
<td></td>
<td>Hollow Cone</td>
<td>135 – 180°</td>
</tr>
</tbody>
</table>

8. Efficient track marking is essential ("Automatic Flagmen" markers should only be used as a back-up system).

9. Avoid spraying in temperatures greater than 25°C.

10. Spray only when wind is blowing away from a sensitive crop.

11. Do not spray in a dead calm and when wind speed exceeds 8 km per hour.

12. For aerial application mixers/loaders must wear coveralls over normal working clothes.

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Spray Pressure:  
Ground: 275 kPa.  
Air: Use pressures at the lower end of the range recommended by the nozzle manufacturer.

Nozzles:  
Ground: Flat Fan recommended  
Air: Do not Use Flood Jet Nozzles.

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SECTION 4  
BARLEY (not underseeded to legumes)

<table>
<thead>
<tr>
<th>Benchmark B Herbicide ALONE</th>
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</thead>
<tbody>
<tr>
<td>Weeds Controlled:</td>
</tr>
<tr>
<td>Crop Treatment Stage:</td>
</tr>
</tbody>
</table>
| Application Method: | Ground - apply in 100 litres of water per hectare.  
Air - apply in 20-40 litres of water per hectare.  
See Section 3. |
| Application Rate: | 1.2 L/ha. |
SECTION 5
OATS (not underseeded to legumes)

<table>
<thead>
<tr>
<th>Benchmark B Herbicide ALONE</th>
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<tbody>
<tr>
<td><strong>Weeds Controlled:</strong></td>
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<tr>
<td><strong>Crop Treatment Stage:</strong></td>
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<tr>
<td><strong>Application Method:</strong></td>
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<tr>
<td><strong>Application Rate:</strong></td>
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SECTION 6
WHEAT: (spring) (not underseeded to legumes)

<table>
<thead>
<tr>
<th>Benchmark B Herbicide ALONE</th>
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<tbody>
<tr>
<td><strong>Weeds Controlled:</strong></td>
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<td><strong>Application Method:</strong></td>
</tr>
<tr>
<td><strong>Application Rate:</strong></td>
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</tbody>
</table>

SECTION 7
SAFETY INFORMATION
PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. POTENTIAL SKIN SENSITIZER. WARNING POISON. Do not get into eyes, on skin or on clothing. Store the container, tightly closed, away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately. Do not inhale spray mist. After use wash hands and other exposed skin. Avoid spray drift onto crops other than those recommended. Avoid contamination of ponds, streams, rivers and other water sources. Wear goggles or a face shield during mixing/loading operations.

Wear chemically resistant nitrile gloves, e.g., Edmont SolVex #37-155/#37-145 or Pioneer A-15. Gloves which are in good condition must be worn when mixing/loading, spraying, and during clean up and repair.

For aerial application, mixers/loaders must wear coveralls over normal working clothes.

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 website at: www.croplife.ca.

This product contains a petroleum distillate that 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.
PRE-HARVEST GRAZING INTERVALS (wheat, barley, oats)
Do not use treated crops for grazing of livestock or green feed until 30 days after application of Benchmark B Herbicide. Do not cut treated crops for forage until 30 days after application of Benchmark B Herbicide.

CAUTION: Do not graze other treated crops or cut for hay, unless specified above; sufficient data are not available to support such use.

FIRST AID
Remove person from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest.

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

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

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

TOXICOLOGICAL INFORMATION
This product contains PETROLEUM DISTILLATES. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE CONDITIONS
Benchmark B Herbicide will solidify below minus 20°C but will become usable at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

SHAKE WELL BEFORE USING.

DISPOSAL
For Recyclable Containers:
Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:
1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.
If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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

For Returnable-Refillable Containers:
For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.
For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**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.

F07RIB/

Label Code: CN-28876-001-E

Specimen label notes:

Initial printing