GROUP 2 HERBICIDE

BEACON® 75WG

HERBICIDE

AGRICULTURAL

For sale for use in Eastern Canada only as a water Dispersible Granular (WG) Herbicide for Post-Emergent Control of Quackgrass, and Redroot Pigweed and Suppression of Lamb's Quarters in Field Corn.

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

REGISTRATION NUMBER: **26210**PEST CONTROL PRODUCTS ACT

The BEACON 75WG herbicide inside this pouch is packaged in 4 "Water Soluble Bags". Each pouch will treat 6 ha (15 ac) at 26.7 g/ha or 4 ha (10 ac) at 40 g/ha. Each water soluble bag contains 40 grams of BEACON 75WG herbicide and will treat 1.5 ha (3.7 ac) at 26.7 g/ha or 1 ha (2.5 ac) at 40 g/ha. To use, remove the seal at the top of the pouch, open the zipper, add the desired number of water soluble bags to the spray tank and reseal by closing the zipper.

Do not touch water soluble bags with wet gloves as the bag s will dissolve. Do not open water soluble bags. Store above freezing in a dry location. Prolonged storage at temperatures below 0 °C may cause the water soluble bag to become brittle.

DO NOT SELL THE SOLUBLE BAGS INDIVIDUALLY

NET CONTENTS: 160 grams

Syngenta Canada, Inc. 140 Research Lane, Research Park Guelph Ontario N1G 4Z3

LABEL

Page 2 of 3

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:

IF POIS ONING IS SUSPECTED: Immediately contact a physician or a poison control centre. 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 is 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 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 of doctor for further treatment advice.

TOXICOLOGICAL INFORMATION:

No specific antidote is known. Apply symptomatic therapy. If a large amount has been ingested, induce emesis or lavage stomach. A suspension of activated charcoal in water can be given to absorb remaining toxicant.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. Avoid inhalation of dust or spra y mist. Avo id contact with skin, eyes and clothing. Wear coveralls, he ad covering, chemical resistant gloves and boots, goggles, and a NIOSH approved chemical cartridge pesticide respirator when mixing, loading, during application, equipment clean-up and repair. Do not eat, drink or smoke while mixing, or during application. DO NOT re-enter treated areas for 12 hours. 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. Avoid application when weather conditions favour drift from treated areas. Avoid contamination of food and feed. Do not contaminate streams, lakes, ponds, wetlands, irrigation water, water used by livestock or for domestic purposes. Do not reuse outer bag; destroy when empty. DO NOT APPLY BY AIR.

CAUTION: Do not graze or feed for age to livestock within 30 days after application. Do not harvest silage within 45 days after application. Do not harvest grain within 88 days after application. Make only one application per year.

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.

STORAGE:

Keep in original packaging during storage. Store above freezing in a dry, well-ventilated area away from other pesticides, fertilizers, food or feed. Prolonged storage at temperatures below 0 °C may cause the soluble bag to become brittle.

DECONTAMINATION AND DISPOSAL:

- 1. After the outer bag is empty, make it unsuitable for further use by punching holes in it.
- 2. Dispose of the outer bag in accordance with provincial requirements.
- 3. 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.

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

GROUP

2

HERBICIDE

BEACON® 75WG

HERBICIDE

AGRICULTURAL

For sale for use in Eastern Canada only as a Water Dispersible Granular (WG) Herbicide for Post-Emergent Control of Quackgrass and Redroot Pigweed and the suppression of Lamb's Quarters in Field Corn.

GUARANTEE:	
primisulfuron-methyl	 75%

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

REGISTRATION NUMBER: 26210 PEST CONTROL PRODUCTS ACT

The BEACON 75WG herbicide inside the pouch is packaged in 4 "Water Soluble Bags". Each pouch will treat 6 ha (15 ac) at 26.7 g/ha or 4 ha (10 ac) at 40 g/ha. Each water soluble bag contains 40 grams of BEACON 75WG and will treat 1.5 ha (3.7 ac) at 26.7 g/ha or 1 ha (2.5 ac) at 40 g/ha. To use, remove the seal at the top of the pouch, open the zipper, add the desired number of water soluble bags to the spray tank and reseal by closing the zipper.

Do not touch water soluble bags with wet gloves as the bags will dissolve. Do not open water soluble bags. Store above freezing in a dry location. Prolonged storage at temperatures below 0 °C may cause the water soluble bag to become brittle.

DO NOT SELL THE SOLUBLE BAGS INDIVIDUALLY

Syngenta Canada, Inc. 140 Research Lane, Research Park Guelph Ontario N1G 4Z3

BOOKLET

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:

IF POISONING IS SUSPECTED: Immediately contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If sw allowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water is 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 in ey es: 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 of doctor for further treatment advice.

TOXICOLOGICAL INFORMATION:

No specific antidote is known. Apply symptomatic therapy. If a large amount has been ingested, induce emesis or lavage stomach. A suspension of activated charcoal in water can be given to absorb remaining toxicant.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. Avoid inhalation of dust or spray mist. Avoid contact with skin, eyes and clothing. Wear coveralls, head covering, chemical resistant gloves and boots, goggles, and a NIOSH approved chemical cartridge pesticide respirator when mixing, loading, during application, equipment clean-up and repair.

Do not eat, drink or smoke while mixing, or during application. DO NOT re-enter treated areas for 12 hours. 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. Avoid application when weather conditions favour drift from treated areas. Avoid contamination of food and feed. Do not contaminate streams, lakes, ponds, wetlands, irrigation water, water used by livestock or for domestic purposes. Do not reuse outer bag; destroy when empty. DO NOT APPLY BY AIR.

CAUTION: Do not graze or feed forage to livestock within 30 days after application. Do not harvest silage within 45 days after application. Do not harvest grain within 88 days after application. Make only one application per year.

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

STORAGE:

Keep in original packaging during storage. Store above freezing in a dry, well-ventilated area away from other pesticides, fertilizers, food or feed. Prolonged storage at temperatures below 0 °C may cause the soluble bag to become brittle.

DECONTAMINATION AND DISPOSAL:

- 1. After the outer bag is empty, make it unsuitable for further use by punching holes in it.
- 2. Dispose of the outer bag in accordance with provincial requirements.
- 3. 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.

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

GENERAL INFORMATION:

BEACON 75WG herbicide is a water dispersible granular herbicide to be mixed in water and applied post-emergence to field corn in Eastern Canada for the control or suppression of quackgrass, redroot pigweed and lamb's quarters. BEACON 75WG herbicide is non-corrosive, non-flammable and non-volatile. BEACON 75WG herbicide is absorbed through the leaves and is rapidly translocated to the plants' growing points.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY:

The level of weed control following BEACON 75WG HERBICIDE application is dependent upon weed size at application and growing conditions. Warm, moist conditions following

application promote the activity of BEACON 75WG HERBICIDE, while cool and/or dry soil conditions may reduce or delay activity as weeds are under stress.

BEACON 75WG HERBICIDE should be applied only when the temperature in the 24 hours before and after application ranges between 5°C and 28°C. Temperatures beyond this range may increase the potential for crop injury.

Thorough coverage of the quackgrass is essential for effective control with BEACON 75WG HERBICIDE. Ensure that the boom is set at the proper height in relation to the corn plants to apply BEACON 75WG HERBICIDE accurately and uniformly, avoiding excessive application into the corn whorl. Growth of quackgrass is inhibited following application of BEACON 75WG HERBICIDE. Visual symptoms of death will appear after several days (leaves will turn yellow and/or red) followed by death of the growing point and complete plant death 7-30 days after application, depending upon growing conditions.

Weeds which emerge after application of BEACON 75WG HERBICIDE will NOT be controlled. Application should be made when the majority of weeds have emerged.

BEACON 75WG HERBICIDE application at labelled rates rarely causes corn injury. When injury occurs, it is generally of short duration and yields are not affected. Crop injury may occur if application is made to corn that has been stressed by abnormally hot, humid or cold weather conditions, frost, low fertility, drought, water saturated soil, compacted soil, previous pesticide applications, disease or insect damage. If corn has been injured by frost, wait 48-72 hours before applying BEACON 75WG HERBICIDE.

Certain other crops may be sensitive to lo w concentrations of BEACON 75WG HERBICIDE herbicide in the soil. Therefore, careful consideration should be given to crop rotation plans prior to using BEACON 75WG HERBICIDE herbicide (refer to "RECROPPING GUIDLINES").

USE DIRECTIONS:

Crops: Field Corn

Weeds Controlled or suppressed: Quackgrass, Redroot Pigweed, Lamb's Quarters Timing of Application: Time the application according to the growth stage of the crop and the weeds.

Apply 26.7 or 40 grams of BEACON 75WG HERBICIDE per hectare (2.5 acres) as a broadcast spray, with a recommended surfactant, to corn between the two (2) and six (6) leaf stages and weeds at the stages in the following table:

Crop or Weed	Leaf Stage at Application	
Corn	2 - 6 leaves (30 cm in height - leaf extended)	
Quackgrass	3 - 6 leaves (5 - 25 cm in height - leaf extended)	
Redroot Pigweed	2 - 6 leaves	
Lamb's Quarters	2 - 4 leaves	

Weeds controlled by 26.7 grams of BEACON 75WG HERBICIDE per hectare:

Redroot Pigweed

Lamb's Quarter's (Suppression)

Quackgrass (Suppression)

Weeds controlled by 40 grams of BEACON 75WG HERBICIDE per hectare:

Quackgrass

TIMING	WEEDS CONTROLLED	RATE/HA BEACON 75WG HERBICIDE	RATE PER HECTARE - TANK MIX PARTNER ¹
Post-Emergent (2 to 6 leaf corn)	Quackgrass, Lamb's Quarters, Wild Mustard, Common Rag- weed, Redroot Pigweed, Wild Buckwheat and Velvetleaf, including triazine tolerant forms of the above weeds	40 g (1 water soluble bag)	200 g Cadence®

Consult the label of the product to be tank mixed with BEACON 75WG HERBICIDE for specific instructions regarding broad-leafed weeds, soil-type variations, and rotational crop, grazing or other restrictions.

Surfactant:

BEACON 75WG herbicide must be applied with a recommended non-ionic surfactant (Refer to "MIXING AND SPRAYING INSTRUCTIONS").

Corn Hybrid Sensitivity:

Corn hybrids with corn-heat unit (CHU) ratings of 2500 or less may show some sensitivity to BEACON 75WG HERBICIDE. DO NOT use BEACON 75WG HERBICIDE on corn hybrids with CHU ratings of 2500 or less average seasonal corn heat units or in areas with seasonal corn heat unit ratings of 2500 or less.

Corn hybrids of 2550 CHU or greater that have shown considerable crop injury from application of BEACON 75WG HERBICIDE are listed below. BEACON 75WG HERBICIDE should not be sprayed for weed control in fields planted with these hybrids:

FUNK'S® G-4034

FUNK'S G-4120

FUNK'S G-4160

PIONEER® 3897

DO NOT apply BEACON 75WG HERBICIDE to sweet corn or seed corn.

USE PRECAUTIONS:

Do not apply BEACON 75WG herbicide where its movement in the soil may place it in contact with non-target plants or their roots.

Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders, water bodies and woodlots should be avoided. Leave a 31 metre buffer zone between the last spray swath and vegetated areas at the edges of bodies of water, woodlots, hedgerows, shelterbelts and other terrestrial wildlife habitats. Leave a 26 meter buffer zone between the last spray swath and bodies of water such as ponds, lakes, rivers and streams and wetlands.

Do not spray if there is a forecast of rain during or soon after application.

Do not apply BEACON 75WG herbicide under conditions where uniform coverage at label rates cannot be obtained. Avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an excess application.

Do not allow spray or spray mist to drift onto adjacent sensitive crops or onto land which will be rotated to sensitive crops (see "RECROPPING GUIDELINES" section). Do not drain or flush spray equipment on or near desirable vegetation.

Do not use flood jet nozzles or controlled droplet application equipment.

For maximum crop safety, DO NOT apply BEACON 75WG HERBICIDE to corn that has been treated with an organophosphate soil insecticide.

DO NOT make a foliar post-emergence application of any organophosphate insecticide within 10 days before or 7 days after a BEACON 75WG HERBICIDE application or severe crop injury may occur.

MIXING AND SPRAYING INSTRUCTIONS:

GROUND APPLICATION ONLY:

Water Volume: Minimum of 200 litres per hectare.

Do not use liquid fertilizer as a carrier for BEACON 75WG herbicide applications. Liquid fertilizer may prevent the water soluble bags from

dissolving properly.

Spray Pressure: 200 - 300 kPa

<u>Spray Nozzles:</u> Flat Fan with 50 mesh or larger screens. For uniform coverage and

increased penetration of the crop canopy, set the nozzles at a

downward angle of 90 degrees.

Surfactant: BEACON 75WG herbicide must be applied with a recommended non-

ionic surfactant such as Agral 90[®], Ag-Surf[®] or Citowett Plus[®] at 0.2%

v/v (2.0 L for each 1000 L of spray mixture).

Mixing Procedure:

1. Ensure that the sprayer is totally clean.

- 2. Fill the spray tank 1/2 full with clean water and engage gentle agitation. NOTE: Growers using a sprayer with by-pass agitation should allow the water soluble bags to completely dissolve before engaging the by-pass. Otherwise, undissolved bags could be sucked into the by-pass and plug the main screen.
- 3. Ensure the agitation system is working properly and that it creates a rippling or rolling action on the water surface.
- 4. Add the appropriate number of water soluble bags directly into the spray tank while continuing agitation and allow time for the soluble bags to completely disperse. Do not touch water soluble bags with wet gloves. The water soluble bag may become brittle with age and exposure to cold temperatures. Longer mixing time may be required if the bag is brittle or if the water is cold.
- 5. Agitate an additional 2 to 3 minutes, then add a recommended non-ionic surfactant at 0.2% v/v (2.0 L for each 1000 L of water).
- 6. Complete filling of the tank, maintaining sufficient agitation at all times to ensure surface action.
- 7. Continuous agitation is required to keep BEACON 75WG herbicide in suspension. Do not allow the spray mixture to stand without agitation.
- 8. Use the spray suspension as soon is it is prepared. Do not prepare more spray mixture than can be used in one day.

WEED RESISTANCE:

Some weed populations may contain plants naturally resistant to BEACON 75WG HERBICIDE or other herbicides with the same mode of action (ALS/AHAS enzyme inhibitors, Group 2). Repeated use of herbicides with this mode of action may allow these plants to spread. Poor control may result.

To delay the selection of resistant weeds:

- Integrate tillage or other mechanical control methods into weed control programs wherever practical.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Maintain herbicide use records for each of your fields.
- Monitor fields regularly for resistant weed populations
- For further information contact your local Syngenta company representative.

RECROPPING GUIDELINES:

Certain crops have been shown to be highly sensitive to low residues of BEACON 75WG herbicide in the soil. The minimum recropping interval is the time between the last application of BEACON 75WG herbicide and the anticipated date of planting of the next crop.

To avoid injury to subsequent crops after an application at the recommended rate of BEACON 75WG herbicide, the following recropping intervals should be observed.

RECROPPING GUIDELINES

CROP	MINIMAL INTERVAL (MONTHS)		
Field Corn (excluding Funks G-4034, G-4120, G-4160 and Pioneer 3897)	10		
All Other Crops	Field Bioassay		

Land treated with BEACON 75WG herbicide CAN ONLY BE PLANTED TO A CROP NOT LISTED IN THE PRECEEDING TABLE if a field bioassay can be successfully performed. The bioassay must indicate normal growth with no yield reductions.

When conducting a field bioassay, it is very important to select a representative area(s) of the field previously treated with BEACON 75WG herbicide to plant the test crop(s).

FIELD BIOASSAY

1. Representative Sample:

Ensure that soil parameters such as soil texture, depth of top soil layer, soil pH and drainage of the test area selected are representative of the remainder of the field.

2. Sample Size:

The seeded area of each selected bioassay crop must be large enough to ensure that reliable results are obtained. The seedbed preparations and seeding of the bioassay crop(s) should be conducted the same way as when the entire field would be planted.

3. Other Residual Herbicides:

It is important that other herbicide products which are known to have residual activity were not applied to the field between the last application of BEACON 75WG herbicide and the bioassay testing period. Avoid the use of other pesticides during the duration of the bioassay as they may damage the indicator crop(s).

4. Comparisons:

Ideally, an untreated check strip in a neighbouring field should be established and monitored for comparison since growing conditions can vary greatly from year to year and may result in erroneous results.

5. Assessment:

The site should be monitored regularly throughout the growing season. Watch for any damage to the crop such as thinning, yellowing or stunting. A yield sample should be taken and compared to an adjacent untreated field.

DO NOT ROTATE TO OTHER CROPS UNTIL THE BIOASSAY INDICATES NORMAL GROWTH WITH NO YIELD REDUCTIONS.

Failure to follow these recropping guidelines could result in injury to seeded crop(s).

SPRAYER CLEANUP:

To avoid subsequent injury to other crops, thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. The following procedures are recommended:

- 1. Drain and flush tank, boom and all hoses for several minutes with clean water containing a household detergent. Do <u>not clea</u>n the sprayer near desirable vegetation, wells or other water sources.
- 2. Fill the sprayer tank with clean water and add one litre of household ammonia (containing 3% ammonia) per 100 litres of water. Allow the solution to agitate for 15 minutes prior to flushing the solution through the boom and nozzles. Drain the system.
- 3. Remove the nozzles and screens and wash separately in a bucket containing the ammonia solution.
- 4. Thoroughly rinse the tank, hoses, booms, nozzles and screens with clean water for a minimum of 5 minutes to remove all traces of ammonia.
- 5. Prior to using the sprayer for the next application, flush the tank, boom and hoses for 5 minutes with clean water.
- 6. Dispose of all rinsings in accordance with provincial regulations.

<u>CAUTION:</u> Do not use ammonia in conjunction with chlorine bleach as this could result in the release of chlorine gas which can cause severe eye, nose, throat and lung irritation. Do not clean sprayer equipment in an enclosed area.

Resistance-Management Recommendations

For resistance management, BEACON 75WG Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to BEACON 75WG 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 BEACON 75WG 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 and to report suspected resistance, contact company representatives at 1-800-265-3554 or at www.syngenta.ca.

- ® BEACON and Agral 90 are trademarks of a Syngenta company.
- ® Citowett Plus is a registered trademark of BASF AG.

BEACON 75WG

WATER SOLUBLE BAG HERBICIDE

Water dispersible granule

GUARANTEE: primisulfuron-methyl 75%

KEEP OUT OF REACH OF CHILDREN

READ THE ENTIRE LABEL AND BOOKLET BEFORE USING

NET CONTENTS: 40 g

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.