

2012-0171
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GROUP 2 | 4 HERBICIDES

SUMMIT® WG

HERBICIDE

AGRICULTURAL

Water Dispersible Granule for Post-Emergent Control of Quackgrass and many Broadleaf Weeds in Field Corn in Eastern Canada

FOR SALE FOR USE IN EASTERN CANADA ONLY

GUARANTEE:

Primisulfuron-methyl 7.5%
Dicamba acid equivalent
(present as sodium salt)..... 39.9%

***READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN
HARMFUL IF SWALLOWED***

CAUTION



POISON

WARNING: EYE IRRITANT

REGISTRATION NUMBER: **26688**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **2.8 kg**

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 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 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Dicamba may cause severe irritation to the eyes, and irritation to the skin and mucous membranes. Symptoms of exposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice. Treat symptomatically. If a large amount has been ingested and emesis is inadequate, lavage stomach.

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 over a long-sleeved shirt and long pants, head covering, boots and chemical resistant gloves during application. Wear the previously mentioned clothing plus goggles, and a NIOSH approved chemical cartridge pesticide respirator when mixing, loading, and during equipment clean-up and repair. Do not eat, drink or smoke while mixing, or during application. 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 re-enter treated areas until 12 hours after application.

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.

DO NOT APPLY BY AIR.

DO NOT MAKE MORE THAN ONE APPLICATION PER YEAR.

CAUTION: Do not graze or feed forage within 30 days of application. Do not cut corn for silage within 45 days of application. Do not harvest grain within 88 days of application.

Withdraw meat animals from treated fields at least 3 days before slaughter.

ENVIRONMENTAL HAZARDS

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

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).

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetation strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecasted.

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 depth to the water table is shallow.

STORAGE

Keep in original packaging during storage. Store in a dry, well-ventilated area away from other pesticides, fertilizers, food or feed.

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 OR REFILLING:

RECYCLABLE CONTAINER:

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.

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

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GENERAL INFORMATION

SUMMIT WG Herbicide is a selective herbicide for use in Eastern Canada only that is applied after emergence of both corn and weeds for the control of quackgrass, lamb's quarters, redroot pigweed, velvetleaf and ragweed. Application should be made using ground application equipment to young, actively growing weeds.

The level of weed control following SUMMIT WG Herbicide application is dependent upon weed size at application and growing conditions. Warm, moist conditions following application promote the activity of SUMMIT WG Herbicide, while cool and/or dry soil conditions may reduce or delay activity as weeds are under stress.

SUMMIT WG 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 emerged weeds is essential for effective control with SUMMIT WG Herbicide. Ensure that the boom is set at the proper height in relation to the corn plants to apply SUMMIT WG Herbicide accurately and uniformly, avoiding excessive application into the corn whorl. Growth of susceptible weeds is inhibited following application of SUMMIT WG Herbicide. The leaves turn yellow and/or red after several days followed by death of the growing point. In addition, broadleaf weeds exhibit stem and leaf twisting and bending. Complete death occurs 7-30 days after application, depending upon species and environmental conditions. Weeds not completely killed are often stunted and are less competitive to corn. SUMMIT WG Herbicide reaching the soil during a post-emergent application may provide pre-emergent control of certain late emerging weeds.

SUMMIT WG 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 SUMMIT WG Herbicide.

Certain other crops may be sensitive to low concentrations of SUMMIT WG Herbicide in the soil. Therefore, careful consideration should be given to crop rotation plans prior to using SUMMIT WG Herbicide (refer to "RECRIPPING GUIDELINES").

CROP INFORMATION

SUMMIT WG Herbicide provides selective weed control in hybrid and silage corn. Do not use on seed corn, sweet corn or popcorn.

Corn Hybrid Sensitivity:

Corn hybrids with corn-heat unit (CHU) ratings of 2500 or less may show some sensitivity to SUMMIT WG Herbicide. **DO NOT** use SUMMIT WG 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 2500 CHU or greater that have shown considerable crop injury from application of SUMMIT WG Herbicide are listed below. SUMMIT WG Herbicide should **not** be used for weed control in fields planted with these hybrids:

NK [†] G-4034	NK G-4120
NK G-4160	PIONEER [†] 3897

WEEDS CONTROLLED

Quackgrass	Lamb's Quarters
Redroot Pigweed	Ragweed

WEEDS SUPPRESSED

Velvetleaf

DIRECTIONS FOR USE

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty or in excess of 8 km/h and moving in the direction of adjacent sensitive crops. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Boom height must be 60 cm or less above the crop or ground.

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 or rinsing of equipment or containers or disposal of wastes.

Apply SUMMIT WG Herbicide, plus a recommended adjuvant (See MIXING AND SPRAYING INSTRUCTIONS), as a broadcast treatment over-the-top, at a rate of 350 g per hectare when corn is in the 2 to 7 leaf stage (10 – 30 cm tall) and the weeds are at the stages shown in the following table:

Crop or Weed	Leaf Stage at Application
Corn	2 – 7 leaves (30 cm in height - leaf extended)
Quackgrass	3 – 6 leaves (5 – 25 cm in height - leaf extended)
Redroot Pigweed	2 – 8 leaves
Lamb's Quarters	2 – 6 leaves
Velvetleaf	2 – 4 leaves
Ragweed	2 – 6 leaves

Do not apply SUMMIT WG Herbicide over-the-top to corn which is taller than 30 cm.

Tank-mixing SUMMIT WG Herbicide with ACCENT[†] 75 DF Herbicide for broadleaf weeds and annual grasses

Apply SUMMIT WG Herbicide plus Accent herbicide plus a recommended adjuvant (See MIXING AND SPRAYING INSTRUCTIONS) according to the following table:

Use Rate		Area treated	
SUMMIT WG	Accent 75 DF	SUMMIT WG (1 container)	Accent 75 DF (6 bags)
350 g/ha (1 container treats 8 ha or 20 acres)	25 g/ha (1 bag treats 1.33 ha or 3.3 acres)	8 ha	8 ha

Apply as a broadcast treatment over-the-top when corn is in the 2 to 7 leaf stage (10 – 30 cm tall) and the weeds are at the stages shown in the following table:

Crop or Weed	Leaf Stage at Application
Corn	2 – 7 leaves (30 cm in height – leaf extended)
Quackgrass	3 – 6 leaves (5 – 25 cm in height - leaf extended)
Redroot Pigweed	2 – 8 leaves
Lamb's Quarters	2 – 6 leaves
Velvetleaf*	2 – 4 leaves
Ragweed	2 – 6 leaves
Barnyard grass	1 – 6 leaves (up to early tillering, 2 – two leaf tillers)
Green foxtail	1 – 6 leaves (up to early tillering, 2 – two leaf tillers)
Yellow foxtail	1 – 6 leaves (up to early tillering, 2 – two leaf tillers)
Eastern black nightshade*	2 - 7 leaves

Consult the ACCENT 75 DF Herbicide label before using in a tank mix with SUMMIT WG Herbicide.

*suppression only.

MIXING AND SPRAYING INSTRUCTIONS

GROUND APPLICATION ONLY:

WATER VOLUME: Minimum of 150 litres per hectare.

SPRAY PRESSURE: 200 - 300 kPa

SPRAY NOZZLES: 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: SUMMIT WG Herbicide **must** be applied with a recommended non-ionic surfactant such as AGRAL 90[®], Ag-Surf[†] or Citowett Plus[†] at 0.20% v/v (2.0 L for each 1000 L of spray mixture).

1. Fill sprayer 1/2 full of clean water. Start gentle agitation. Make certain that the agitation system creates a rippling or rolling action on the water's surface. Maintain agitation throughout the mixing and spraying process.
2. Add the required amount of SUMMIT WG Herbicide and allow to fully disperse. Add the required amount of ACCENT 75DF herbicide if using as a tank mix and allow to fully disperse.
3. Agitate an additional 2 – 3 minutes and then add a recommended non-ionic surfactant.
4. Top off tank with water, maintain agitation and spray.
5. Do not let stand without agitation.
6. Do not use liquid fertilizer as the spray carrier.

USE PRECAUTIONS

Do not apply SUMMIT WG Herbicide where its movement in the soil may place it in contact with non-target plants or their roots. Do not use soils treated with SUMMIT WG Herbicide for gardens, lawns, etc. without consulting the "RECROPPING GUIDELINES" section.

Overspray or drift to sensitive habitats should be avoided.

Do not spray if there is a forecast of rain during or soon after application. Do not apply when environmental conditions such as wind speed, temperature, relative humidity etc. are favourable for drift to occur. Do not apply when spray particles may be carried by air currents to areas where sensitive crops and plants are growing or when temperature inversions exist. Do not apply SUMMIT WG 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.

SUMMIT WG Herbicide may cause injury to desirable trees and plants, particularly beans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems and foliage. These plants are most sensitive during their development or vegetative growing stage. Do not apply SUMMIT WG Herbicide when soybeans are growing nearby and are more than 25 cm tall or have begun to bloom.

Do not use flood jet nozzles or controlled droplet application equipment. For maximum crop safety, do not apply SUMMIT WG Herbicide to corn which has been treated with an organophosphorus insecticide. If an IR corn hybrid is planted, organophosphorus insecticides can be used according to label directions without increasing the likelihood of injury to those hybrids when SUMMIT WG Herbicide is applied. SUMMIT WG Herbicide can be applied to corn previously treated with FORCE[®]3.0G Insecticide.

Buffer zones:

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

The buffer zones specified in the tables 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, prairies potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

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.

Buffer Zones

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*	Corn	26	26	26	26	31

* 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 %.

SPRAYER CLEAN-UP

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 not** clean 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. Dispose of all rinsings in accordance with provincial regulations.

CAUTION: 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.

RECROPPING GUIDELINES

Certain crops have been shown to be sensitive to residues of SUMMIT WG Herbicide in the soil. The minimum recropping interval is the time between the last application of SUMMIT WG 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 SUMMIT WG Herbicide, the following recropping intervals should be observed.

RECROPPING GUIDELINES

CROP	MINIMAL INTERVAL (MONTHS)
Field Corn (excluding NKG-4034, NKG-4120, NKG-4160, Pioneer 3897)	10
Soybean, White Bean, Kidney Bean, Alfalfa	11
All Other Crops	Field Bioassay

Land treated with SUMMIT WG 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 SUMMIT WG Herbicide to plant the test crop(s).

FIELD BIOASSAY

- 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.
- 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.
- 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 SUMMIT WG 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).

Resistance-Management Recommendations

For resistance management, SUMMIT WG Herbicide is both a Group 2 and a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to SUMMIT WG Herbicide and other Group 2 and/or Group 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 SUMMIT WG Herbicide or other Group 2 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 and to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca

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