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| GROUP | 4 | 5 | HERBICIDE |
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PROPERO™ Herbicide

HERBICIDE

SUSPENSION

AGRICULTURAL

For broadleaf weed control in Field corn

DO NOT USE IN THE PROVINCE OF BRITISH COLUMBIA

GUARANTEE:

Dicamba 132 a.e. g/L
(present as potassium salt)

Atrazine 261 g/L
(plus the related active triazines)

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

CAUTION



POISON

REGISTRATION NO. **29164**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 10 L – 1000 L

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

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 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 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

Dicamba may cause mild irritation to the eyes, and irritation to the skin and mucous membranes. Symptoms of overexposure 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.

PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN.
2. Harmful if swallowed or absorbed through the skin.
3. Avoid contact with skin, eyes and clothing.
4. Causes skin irritation.
5. During application, wear chemical-resistant gloves, and coveralls over a long-sleeved shirt and long pants.
6. During mixing and loading, wear a face shield in addition to chemical-resistant gloves, and coveralls over a long-sleeved shirt and long pants.
7. DO NOT enter treated fields until 12 hours after application.
8. 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.

ENVIRONMENTAL HAZARDS

Toxic to non-target terrestrial plants and aquatic organisms. Observe the buffer zones and precautionary measures specified under **SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS**.

Atrazine is persistent and will carry over. It is recommended that any products containing atrazine not be used in areas treated with this product during the previous seasons. Apply atrazine at a maximum of 1.5 kg ai/ha per year either as a pre- or post-emergent application before corn reaches 30 cm in height. Treatments can be made once or twice per year but the maximum amount of atrazine used in a year cannot exceed 1.5 kg ai/ha. Atrazine may be applied alone or as a registered tank mix partner. Refer to the tank mix partners for further instructions.

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 and 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.

Potential for 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.

DO NOT APPLY BY AIR

STORAGE

Always store product in original container with top closed in a cool, dry place, away from other pesticides, fertilizer. Avoid contamination of seed, feed, and foodstuffs. If frozen, allow to thaw until the product reaches room temperature and agitate thoroughly prior to use.

FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT

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 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.

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

Product names marked ® or ™ are registered trademarks of a Syngenta Group Company

† All other products listed are trademarks of their respective companies.

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8. 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.

ENVIRONMENTAL HAZARDS

Toxic to non-target terrestrial plants and aquatic organisms. Observe the buffer zones and precautionary measures specified under SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS.

Atrazine is persistent and will carry over. It is recommended that any products containing atrazine not be used in areas treated with this product during the previous seasons. Apply atrazine at a maximum of 1.5 kg ai/ha per year either as a pre- or post-emergent application before corn reaches 30 cm in height. Treatments can be made once or twice per year but the maximum amount of atrazine used in a year cannot exceed 1.5 kg ai/ha. Atrazine may be applied alone or as a registered tank mix partner. Refer to the tank mix partners for further instructions.

Observe buffer zones specified under DIRECTIONS FOR USE.

DO NOT APPLY BY AIR

STORAGE

Always store product in original container with top closed in a cool, dry place, away from other pesticides, fertilizer. Avoid contamination of seed, feed, and foodstuffs. If frozen, allow to thaw until the product reaches room temperature and agitate thoroughly prior to use.

FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT

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

GENERAL INFORMATION

PROPERO Herbicide provides extended control of broadleaf weeds in field corn. It is effective on many late germinating annuals, especially velvetleaf. PROPERO Herbicide provides control of annual and perennial weeds; however perennial weeds must be emerged for effective treatment. PROPERO Herbicide can be applied in conventional, reduced, or no-till systems. DO NOT apply PROPERO Herbicide to sweet corn. This product may be applied on land that has been treated with a grass and/or broadleaf herbicide previously.

GENERAL PRECAUTIONS

PROPERO Herbicide can be damaging to sensitive terrestrial and aquatic environments. Do not treat desirable plant or tree species, or any areas where product may reach the roots of such species, with PROPERO Herbicide. A buffer zone of 30 m is required between aquatic habitats and any mixing and loading activities of PROPERO Herbicide. Recommended air temperature at time of spray is 10 to 25°C. Do not apply PROPERO Herbicide when night time temperatures are expected to be low.

This product contains atrazine. Caution is advised when applying PROPERO Herbicide to fields previously treated with atrazine, as the risk of residue carryover to rotational crops is increased. In such cases, follow cropping restrictions outlined on the atrazine label. To avoid contamination, thoroughly clean all equipment after application of PROPERO Herbicide. If tank mixing this product with others, consult tank mix partner labels for additional precautions, restrictions, application rates, timings and additional weeds controlled.

SPRAY DRIFT PRECAUTIONS

Do not apply PROPERO Herbicide where drift may affect sensitive crops, such as soybeans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes and tobacco and other broadleaf crops. To avoid spray drift, 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 PROPERO Herbicide when the air temperature is high (above 30 °C), or there is high humidity or fog, as these conditions will increase spray drift. Apply with coarse spray droplets (no smaller than ASAE medium classification) as they are less likely to drift than fine spray droplets. Apply PROPERO Herbicide in no less than 200 L/ha spray volume with a maximum pressure of 150 kPa unless otherwise required by the nozzle manufacturer.

DIRECTIONS FOR USE

DO NOT overspray non-target terrestrial or aquatic habitats. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), or to estuarine/marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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 and 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.

Potential for 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.

SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS GENERAL INFORMATION

Use good pesticide practices and apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings used for application.

For the protection of non-target habitats, over-spray or drift to any body of water or other environmentally sensitive habitat must be avoided. The interaction of equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

FIELD SPRAYER APPLICATION

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground. Apply using a water volume of 220-350 L/ha, with a spray pressure of 150 to 275 kPa. If the spray mixture settles in the tank, thoroughly mix before spraying. Do not use additives (oils, wetting agents, etc.) unless specified on the label.

Protect sprayer operators from drift or mist. Additional information on spray drift management for GROUND APPLICATION is provided in the section "SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS". When low volumes of spray are applied, complete coverage and thorough application are essential for the most effective results. Schedule applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

DO NOT APPLY BY AIR.

Weeds Controlled

The following is a list of broadleaf weeds controlled by PROPERO Herbicide alone:

Annual Broadleaf Weeds

Buckwheat (tartary, wild)
Cleavers
Corn spurry
Cow cockle
Green smartweed
Lady's thumb
Lamb's-quarters¹
Mustard (hare's ear, Indian, tumble, wild, wormseed)
Pigweed (redroot¹, Russian)
Ragweed (common¹, false, giant)
Velvetleaf
Volunteer adzuki beans²
Waterhemp (common²)

Perennial Broadleaf Weeds

Field bindweed³
Sow-thistle, perennial³
Thistle (Canada³)

¹ Includes triazine-resistant.

² Post-emergence only. For volunteer adzuki bean, apply at the unifoliate to fourth trifoliate stage.

³ An application of PROPERO Herbicide at flowering stage of bindweed and/or budding stage of thistle is required **each year for three (3) years** to provide control of these weeds.

When PROPERO Herbicide is used in tank mix with Frontier[†] Herbicide, the following additional weeds are controlled:

Annual Grasses

Barnyard grass
Crabgrass (large, smooth)
Foxtail (green, yellow)
Nightshade (Eastern black¹)
Old witchgrass
Panicum (fall)

¹ Pre-emergence only. For control of Eastern black nightshade, use **1.4L/ha** of Frontier Herbicide

When PROPERO Herbicide is used in tank mix with DUAL[®] MAGNUM[®] or DUAL II MAGNUM[®] Herbicide, the following additional weeds are controlled:

Annual Grasses

Barnyard grass
Crabgrass
Foxtail (green, yellow, giant)
Old witchgrass
Panicum (fall)

Perennial Grasses

Nightshade (American)

When PROPERO Herbicide is used in tank mix with TOUCHDOWN[®] iQ Liquid Herbicide or TOUCHDOWN TOTAL[®] Herbicide in glyphosate-tolerant corn, residual control of the following will be provided:

Lamb's-quarter's
Redroot pigweed

Common ragweed
Velvetleaf

For a complete list of additional weeds controlled, see the TOUCHDOWN iQ Liquid Herbicide or TOUCHDOWN TOTAL Herbicide.

When PROPERO Herbicide is used in tank mix with Liberty[†] 200SN Herbicide, residual control of annual grass and broadleaf weeds will be provided. For a complete list of additional weeds controlled, see the Liberty 200SN Herbicide label.

APPLICATION DIRECTIONS

PROPERO Herbicide can be applied in pre- or post-emergent treatments alone, or in combination with DUAL MAGNUM Herbicide/DUAL II MAGNUM Herbicide, or Frontier Herbicide. When in combination with TOUCHDOWN TOTAL Herbicide, TOUCHDOWN iQ Liquid Herbicide or Liberty 200SN Herbicide, PROPERO Herbicide can ONLY be applied as a post-emergent treatment.

If applying PROPERO Herbicide with TOUCHDOWN iQ Liquid Herbicide or TOUCHDOWN TOTAL Herbicide, spray ONLY glyphosate tolerant corn. This tank mix will cause severe injury or destruction to any non-glyphosate tolerant corn variety.

If applying PROPERO Herbicide with Liberty 200SN Herbicide, spray ONLY glufosinate ammonium tolerant corn (e.g. LibertyLink[†] seeds). This tank mix will cause severe injury or destruction to any non-glufosinate ammonium tolerant corn variety.

PROPERO Herbicide Use

Apply PROPERO Herbicide pre-emergent to field corn as a broadcast ground treatment after planting (prior to corn and weed emergence) in Eastern Canada ONLY.

Apply PROPERO Herbicide post-emergent to field corn from spike to 5-leaf stage corn.

PROPERO Herbicide + Frontier Herbicide or DUAL MAGNUM Herbicide/DUAL II MAGNUM Herbicide Use

Apply PROPERO Herbicide with either Frontier Herbicide or DUAL MAGNUM Herbicide/DUAL II MAGNUM Herbicide pre-emergent to field corn as a broadcast ground treatment after planting (prior to corn and weed emergence) in Eastern Canada ONLY.

Apply PROPERO Herbicide with either Frontier Herbicide or DUAL MAGNUM Herbicide/DUAL II MAGNUM Herbicide as a broadcast ground treatment post-emergent to field corn from spike to 2-leaf stage corn and before grass weeds reach the 2-leaf stage in Eastern Canada ONLY.

PROPERO Herbicide + TOUCHDOWN iQ Liquid Herbicide or TOUCHDOWN TOTAL Herbicide Use

Apply PROPERO Herbicide with either TOUCHDOWN iQ Liquid Herbicide or TOUCHDOWN TOTAL Herbicide as a broadcast ground treatment post-emergent to field corn from spike to 5-leaf stage corn. **Apply ONLY in glyphosate-tolerant field corn varieties. This tank mix will cause severe injury or destruction to any non-glyphosate tolerant corn variety.**

PROPERO Herbicide + Liberty 200SN Herbicide Use

Apply PROPERO Herbicide with Liberty 200SN Herbicide post-emergent to field corn from the 1-leaf to the 5-leaf stage of corn. **Apply ONLY in glufosinate ammonium tolerant corn. This tank mix will cause severe injury or destruction to any non-glufosinate ammonium tolerant corn variety.** For best methods of application, see the Liberty 200SN Herbicide label.

Rates of PROPERO Herbicide vary, depending on soil texture. Proper use rates for PROPERO Herbicide and its tank mix partners can be found below. In all tank mix cases, consult the label of the tank mix partner for further instructions and precautions.

Tank Mix Application Rates

| TANK MIX PARTNER | SOIL TEXTURE | |
|---|---|---|
| | Coarse (sand, sandy loam) | Medium to Fine (loam to clay) |
| PROPERO Herbicide alone- pre-emergent ¹ | 4.5 L/ha | 4.5 L/ha |
| PROPERO Herbicide alone- post-emergent | 3.7 L/ha | 4.5 L/ha |
| PROPERO Herbicide + Frontier Herbicide ^{1,2} | Not recommended | 4.5 L/ha + 1.1 – 1.4 L/ha ³ |
| PROPERO Herbicide + DUAL MAGNUM Herbicide / DUAL II MAGNUM Herbicide ^{1,4} | 3.7 L/ha + 1.25 – 1.75 L/ha ⁵ | 4.5 L/ha + 1.25 – 1.75 L/ha ⁵ |
| PROPERO Herbicide + TOUCHDOWN iQ Liquid Herbicide ⁸ | 2.5 – 3.7 L/ha ⁶ + 2.5 L/ha | 2.5 – 3.7 L/ha ⁶ + 2.5 L/ha |
| PROPERO Herbicide + TOUCHDOWN TOTAL Herbicide | 2.5 – 3.7 L/ha ⁶ + 1.8 L/ha | 2.5 – 3.7 L/ha ⁶ + 1.8 L/ha |
| PROPERO Herbicide + Liberty 200 SN Herbicide | 2.5 – 3.7 L/ha ⁶ + 1.5 – 2.5 L/ha ⁷ | 2.5 – 3.7 L/ha ⁶ + 1.5 – 2.5 L/ha ⁷ |

¹ Eastern Canada only

² When applied post-emergent, Frontier Herbicide + PROPERO Herbicide cause some leaf burn; however yields will not be affected.

³ Use the higher rate of Frontier Herbicide for heavy weed infestations and on fine/high organic soils. See the Frontier herbicide label for more information.

⁴ PROPERO Herbicide + DUAL MAGNUM HERBICIDE / DUAL II MAGNUM HERBICIDE may cause some leaf burn.

⁵ Use the higher DUAL MAGNUM Herbicide / DUAL II MAGNUM Herbicide rate for heavy weed infestations.

⁶ Use the higher rate of PROPERO Herbicide for heavy weed infestations.

⁷ Consult the Liberty 200SN Herbicide label for the appropriate rates and weeds controlled. Tank mix PROPERO Herbicide appropriately for the weeds targeted.

⁸ Use when a single application timing is required only.

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 with one half tank of clean water while thoroughly hosing down the equipment surfaces (inside and outside). **Do not** clean the sprayer near desirable vegetation, wells, or other water sources.
2. Fill the sprayer tank with clean water and add 1 L of household ammonia (containing 3% ammonia) per 100 litres of water. If PROPERO Herbicide was sprayed in tank mix with a wettable powder, emulsifiable concentrate, or any other water-dispersible formulation, use 1 kg of detergent for every 150 litres of water, as opposed to the household ammonia. Allow the solution to agitate for at least 15 minutes and discharge a small amount of the solution through the spray boom and nozzles.
3. Let the solution stand for several hours, preferably overnight.
4. Flush the solution out of the spray tank through the boom.
5. Remove the nozzles and screens and flush the system with two tanks of clean water in order to be rid of the remaining cleaning solution.
6. Dispose of all rinsing in accordance with provincial regulations.

GRAZING AND HARVEST RESTRICTIONS

Do not graze or cut for fodder before crop maturity (ear emergence); sufficient data are not available to support such use. Do not harvest within 60 days of application on field corn. Withdraw meat animals from treated fields at least 3 days before slaughter.

Buffer Zones

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, pastures, rangelands, riparian areas and shrublands) or sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, 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.

| Application Method | Buffer Zone for Protection of: | |
|----------------------------|--------------------------------|----------------------|
| | Terrestrial Habitats (m) | Aquatic Habitats (m) |
| Field Sprayer ¹ | 10 | 10 |

¹ 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 or ground, 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 or ground, the labelled buffer zone can be reduced by 30%.

Resistance Management Recommendations

For resistance management, PROPERO Herbicide is a Group 4 and 5 herbicide. Any weed population may contain or develop plants naturally resistant to PROPERO Herbicide and other Group 4 and 5 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 PROPERO Herbicide or other Group 4 and 5 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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