

GROUP	5	HERBICIDE
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GESAGARD® 480SC Herbicide

HERBICIDE

COMMERCIAL (AGRICULTURAL)

SUSPENSION

Solution Concentrate for weed control in carrots, peas, celery, leeks, celeriac and parsley.

ACTIVE INGREDIENT:

Prometryn 480 g/L

Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0004%, 2-methyl-4-isothiazolin-3-one at 0.0001% and 2-bromo-2-nitropropane-1,3-diol at 0.01% as preservatives.

**READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CAUTION: EYE IRRITANT

REGISTRATION NO.: **24771**
PEST CONTROL PRODUCTS ACT

NET CONTENTS : **10 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, call 1-800-327-8633 (FASTMED), 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 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.

3.0 TOXICOLOGICAL INFORMATION

Note to Physician: There is no specific antidote if this product is ingested. Provide symptomatic and supportive therapy.

4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. Avoid contact with eyes or with skin. Avoid inhalation of spray mist and prevent contamination of food and feed.

RESTRICTED ENTRY INTERVAL (REI): DO NOT enter or allow worker entry into treated areas during the restricted entry intervals (REIs) specified in the following table:

Crop	Re-entry activities	Restricted entry interval
Celery	All activities	24 hours
Celeriac	All activities	6 days
Parsley	Hand set irrigation	24 days
	Transplanting	5 days
	Scouting	4 days
	All other activities	12 hours
Carrots, peas, leeks	All activities	12 hours

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not use on crops other than those recommended on the label.

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

CAUTION: Do not graze the treated immature crops or cut for hay; there are not sufficient data available to support such use.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Users should wash their hands before eating, drinking, chewing gum, using tobacco or using the toilet.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. DO not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. 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). The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

7.0 STORAGE

To prevent contamination store this product away from seed, food, feed or fertilizer.

8.0 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.

For Disposal of Plastic Jugs

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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

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For 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 use this container for any other purpose.

If the container is not being refilled, refer to the section "FOR DISPOSAL OF PLASTIC JUGS"

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
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Pamphlet

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Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

GESAGARD® 480SC Herbicide is a liquid herbicide designed for application with a sprayer. When used in accordance with directions, most annual broad-leaved weeds and annual

grasses, including lamb's-quarters, redroot pigweed, wild mustard, purslane, lady's-thumb, corn spurry, hemp-nettle, common chickweed, eastern black nightshade and green foxtail are controlled. GESAGARD 480SC Herbicide works by both contact and root action and has a residual effect for 6 to 8 weeks. Best results are obtained when application is made to moist soil.

Do not use GESAGARD 480SC Herbicide on very cloddy soils as weed control may be poor. Established perennial weeds, such as quackgrass, Canada thistle and milkweed, are not controlled by GESAGARD 480SC Herbicide.

GESAGARD 480SC Herbicide is non-corrosive.

Triazine Tolerant Weeds: Some naturally occurring triazine tolerant populations of the above listed weeds may not be controlled by GESAGARD 480SC Herbicide alone. These tolerant weed populations are able to survive a use rate higher than that required to control susceptible weed populations. For information on how to control these triazine tolerant weed populations, consult your local agricultural authority.

10.0 DIRECTIONS FOR USE

10.1 General Information

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

DO NOT apply by air.

10.2 Ground Application

10.2.1 General Information

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.

Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds. **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) or estuarine/marine habitats.

WARNING:

Fields treated with GESAGARD 480SC Herbicide may be replanted only with the crops on this label, if required, provided the soil is thoroughly reworked. A fall cover crop of rye or oats may be sown on the treated land in the same season. Do not plant any other crop on the treated land in the same season.

10.2.2 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with ½ the required amount of carrier and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add GESAGARD 480SC Herbicide and agitate to ensure complete mixing
3. Finish filling the sprayer with carrier, maintaining good agitation.
4. Always ensure that agitation is maintained until spraying is completed. After any break in spraying operations, agitate thoroughly before spraying again. Reduce agitation once tank volume is reduced to about one third of capacity.
5. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

10.2.3 Spraying Instructions

1. Wash out sprayer, boom and nozzles to ensure that no trace of previous chemical remains.
2. Ensure that nozzle tips are clean and of correct size. Use nozzle screens not finer than 50 mesh.
3. Calibrate sprayer.
4. Apply in 200 to 1000 L of water per hectare. Spray at pressure of 200 to 300 kPa.
5. Fill tank with one-half of the required amount of water.
6. Add the required amount of GESAGARD 480SC Herbicide (see Directions for Use above). Top up with the required amount of water and mix well by agitating.
7. Ensure that spray boom is set at the proper height to give good spray coverage.
8. Commence spraying, being careful to maintain correct and uniform spray pressure and tractor speed. It is important to avoid overdosing on headlands and when commencing or stopping spraying.

10.2.4 Equipment Clean-Up

To avoid subsequent injury to other crops, thoroughly clean application equipment immediately after spraying each day. Ensure that all traces of the product are removed. Do not allow residue to dry in spray tank. Do not allow solution to remain in lines or tank overnight.

When using tank mixes, consult the tank-mix partner label for additional clean-up instructions. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial regulations.

10.3 Buffer Zones

The buffer zones specified in the table below are required between the downwind point of direct application and the closest edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Carrots and Leeks	25	10	4	2	25
	Celery and Celeriac	30	15	5	3	30
	Peas and Parsley	15	5	3	1	20

*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 canopy, the labeled 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 canopy, the labeled buffer zones can be reduced by 30%.

10.4 Rotational Crop Restrictions

A 3-month plantback interval is required for small grains, bulb vegetables, leafy vegetables (except Brassica vegetables) and legume vegetables (succulent or dried); an 8-month plantback interval is required for root and tuber vegetables and a 12-month plantback interval is required for all other crops.

11.0 CROP USE DIRECTIONS

11.1 Carrots

CROPS	Carrots
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	Sandy soils 3.75 L/ha; Loam soils 4.58 L/ha; Muck soils 7.08 L/ha
NUMBER OF APPLICATIONS PER SEASON	1
APPLICATION TIMING	Prepare a firm, level seedbed free from large air spaces. Apply GESAGARD 480SC Herbicide soon after planting and before carrots emerge.
PRE-HARVEST INTERVAL	85 days
OTHER	Cultivation will not normally be required for at least 6 weeks, and should not be carried out before 4 weeks unless necessary for weed control. Do not apply GESAGARD 480SC Herbicide at or near the time of emergence of the carrots.

11.2 Celery (Transplanted Crop)

CROPS	Celery (Transplanted Crop)
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	Apply 3.75 L to 4.58 L of GESAGARD 480SC Herbicide per hectare as an overall spray after the celery transplants are well established (at least 21 days).
NUMBER OF APPLICATIONS PER SEASON	1
APPLICATION TIMING	The treatment may be pre-emergence or early post-emergence to the weeds, but must be applied before weeds are 5 cm high.
PRE-HARVEST INTERVAL	54 days

11.3 Peas (Fresh, Processing and Dry)

CROPS	Peas (Fresh, Processing and Dry)
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	Apply 3.75 L to 4.58 L of GESAGARD 480SC Herbicide per hectare.
NUMBER OF APPLICATIONS PER SEASON	1
APPLICATION TIMING	Apply soon after planting but before emergence of the peas.
PRE-HARVEST INTERVAL	55 days
OTHER	If the soil is dry and rainfall not expected, light incorporation by harrowing will usually improve results. Use lower rate on sandy soils.

12.0 MINOR USES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

12.1 Leeks

CROPS	Leeks
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	Apply 3.75 L of GESAGARD 480SC Herbicide per hectare.
NUMBER OF APPLICATIONS PER SEASON	2
APPLICATION TIMING	Apply GESAGARD 480SC Herbicide as a split application to leeks in either mineral or organic soils. Make the first application to well established transplanted leeks that have produced one new fully expanded leaf. Make a second application 10 days later.
OTHER	Temporary injury can occur to the lower leaves in some cultivars.

12.2 Celeriac (Transplanted Crop)

CROPS	Celeriac (Transplanted Crop)
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	Apply 3.75 L to 4.58 L of GESAGARD 480SC Herbicide per hectare as an overall spray after the celeriac transplants are well established (at least 21 days). Always use the lower rate for sandy soils.
SPRAY VOLUME RANGE	Apply in a spray volume of 200 – 1000 L water/ha.
NUMBER OF APPLICATIONS PER SEASON	1
APPLICATION TIMING	The treatment may be pre-emergence or early post-emergence to the weeds, but must be applied before weeds are 5 cm high.
PRE-HARVEST INTERVAL	60 days
OTHER	Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 6 days.

12.3 Parsley – Fresh Leaves and Dried	
CROPS	Parsley – Fresh Leaves and Dried
PESTS	Labelled weeds
METHOD OF APPLICATION	Ground (foliar) application equipment only. DO NOT apply by air.
RATE OF APPLICATION	3.75 – 4.58 L product/ha (1800 - 2200 g ai/ha)
SPRAY VOLUME RANGE	Apply in 200 - 1000 L water/ha
NUMBER OF APPLICATIONS	1
APPLICATION TIMING	Apply pre-emergence or early post-emergence to parsley before weeds reach 5 cm high
PRE-HARVEST INTERVAL	30 days
OTHER	<p>Do not overlap application, as crop injury may occur.</p> <p>Application on sandy soils may result in injury to the crop. Always use the lower rate for sandy soils.</p> <p>Do not apply if parsley is under water stress.</p> <p>For domestic use only. Do not export parsley treated with GESAGARD 480SC Herbicide.</p>

13.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, GESAGARD 480SC Herbicide is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to GESAGARD 480SC Herbicide and other Group 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 GESAGARD 480SC Herbicide or other Group 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. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.

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 weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group.

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

Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.

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 Syngenta Canada Inc. company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

GESAGARD® is a trademark of a Syngenta Group Company.