

GROUP	5	HERBICIDE
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GESAGARD® 480SC Herbicide

HERBICIDE

AGRICULTURAL

SUSPENSION

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

GUARANTEE:

Prometryn 480 g/L

Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative.

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

CAUTION: EYE IRRITANT

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

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

Pamphlet

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, 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.

TOXICOLOGICAL INFORMATION

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

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. Avoid contact with eyes or with skin. Wear a long-sleeved shirt, long pants and shoes plus socks, during mixing/loading, application, clean-up and repair activities. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair activities. Avoid inhalation of spray mist and prevent contamination of food and feed. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours for celery and 12 hours for all other crops. 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. Users should wash their hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. Do not

reuse them. Do not use on crops other than those recommended on the label.

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

ENVIRONMENTAL HAZARDS

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.

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.

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:

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.

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

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

GENERAL 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.

DO NOT APPLY BY AIR.

DIRECTIONS FOR USE

CARROTS: Prepare a firm, level seedbed free from large air spaces. Apply GESAGARD 480SC herbicide soon after planting and before carrots emerge.

RATES TO USE: Sandy soils 3.75 L/ha; Loam soils 4.58 L/ha; Muck soils 7.08 L/ha.

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.

Make only one application of GESAGARD 480SC herbicide per season. Allow a minimum of 85 days between application and harvest of the carrots.

CELERY (TRANSPLANTED CROP): 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). The treatment may be pre-emergence or early post-emergence to the weeds, but must be applied before weeds are 5 cm high.

Make only one application of GESAGARD 480SC herbicide per season. Allow a minimum of 54 days between application and harvest of the celery.

PEAS (FRESH, PROCESSING AND DRY): Apply 3.75 L to 4.58 L of GESAGARD 480SC herbicide per hectare soon after planting but before emergence of the peas. If the soil is dry and rainfall not expected, light incorporation by harrowing will usually improve results. Use lower rate on sandy soils.

Make only one application of GESAGARD 480SC herbicide per season. Allow minimum of 55 days between application and harvest of the peas.

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.

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:				Terrestrial Habitat
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
		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	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%.

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.

- 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.

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.

NOTICE TO USER:

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the User assumes all liability arising, and agrees to hold Syngenta Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

DIRECTIONS FOR USE:

LEEKs: 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. Make a maximum of two applications per year. Apply 3.75L/ha of GESAGARD 480SC herbicide at each application timing. Temporary injury can occur to the lower leaves in some cultivars.

CELERIAC (TRANSPLANTED CROP): 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. Apply in a spray volume of 200 – 1000 L water/ha. Apply by ground application only. **DO NOT** apply by air. The treatment may be pre-emergence or early post-emergence to the weeds, but must be applied before weeds are 5 cm high.

Make only one application of GESAGARD 480SC herbicide per season. Allow a minimum of 60 days between application and harvest of the celeriac. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 6 days.

Resistance-Management Recommendations

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

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 Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

GESAGARD® is a trademark of a Syngenta Group Company.