

\*\*BOOKLET\*\*

# GAUCHO<sup>®</sup> 480 FL INSECTICIDE

Gaicho 480 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment type only) and rapeseed seed and seedlings against flea beetles. Gaicho 480 FL Insecticide provides early season protection of field corn for seed production and sweet corn seedlings against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. Gaicho 480 FL Insecticide also provides early season control of wireworms in field and sweet corn. Use of Gaicho 480 FL Insecticide as a seed treatment for corn is restricted to Ontario only.

## COMMERCIAL

All seed treated with this product must be conspicuously coloured at the time of treatment.

GUARANTEE: Imidacloprid  
1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.....480 g/L

REGISTRATION NO. 26124    PEST CONTROL PRODUCTS ACT



CAUTION

POISON

READ THE LABEL AND BOOKLET BEFORE USING

Distributor:  
Gustafson Partnership  
10-2712-37th Ave NE  
Calgary, AB T1Y 5L3

A quality product manufactured by:  
Gustafson LLC  
1400 Preston Rd., Suite 400  
Plano, TX 75093 USA

**Special Use Restrictions:**

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the 'SEEDS ACT' must be strictly adhered to when using this product. Gaucho 480 FL Insecticide can only be sold to commercial seed treaters who must comply with these regulations.

**PROTECT FROM FREEZING**

24 HOUR EMERGENCY PHONE: (613) 996-6666  
GROWER INFORMATION: 1-800-880-9481

NET CONTENTS 10 L, 100 L, 1,000 L

®Gaucho is a registered trademark of Bayer AG

**GENERAL INFORMATION:**

Gaicho 480 FL is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment type only) and rapeseed seed and seedlings against flea beetles. In areas where flea beetle populations are often high, the higher application rate is recommended.

Gaicho 480 FL Insecticide provides early season protection of field corn for seed production and sweet corn seedlings against corn flea beetle which vector Stewart's Wilt disease by feeding on corn seedlings. Gaicho 480 FL Insecticide also provides early season control of wireworms in field and sweet corn. Use of Gaicho 480 FL Insecticide as a seed treatment for corn is restricted to Ontario only.

Under high insect pressures, a foliar insecticide may be required, therefore monitor crop regularly for insect infestation levels.

**DIRECTIONS FOR USE:**

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in treaters designed for pelleting or coating seed. Mix thoroughly before use, or use entire container at one time. All seed must be conspicuously coloured at the time of treatment in accordance with Seed Regulations.

Equipment used in seed treating plants can vary thus it is advised that a Gustafson Technical Representative be contacted to discuss the use of Gaicho 480 FL Insecticide in the intended seed treater prior to use. Gaicho 480 FL Insecticide treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

**Canola, mustard (condiment type only), and rapeseed. Mixing Instructions per 100 kg seed.**

Gaicho 480 FL Application Rate	Component		Total Mixture
	Gaicho 480 FL	Water	
833.3 mL/100kg seed to	833.3 mL	83.3 mL	916.6 mL
1666.6 mL/100kg seed	1666.6 mL	166.6 mL	1833.2 mL

**NOTE:** A colourant **MUST** be added to this product to colour the seed in accordance with the PCP Act and the Seeds Act Regulations. A blue colourant must be added when this product is applied to oilseed. A suitable seed colourant such as Magna-Coat Colourant must be applied to the seed during the pelleting or the coating process. Magna-Coat Polymer and Magna-Coat Colourant are also available from Gustafson. For assistance please contact a Gustafson representative.

## Corn For Use in Ontario Only

For early season control of corn flea beetle and wireworms.

CROP	PEST	APPLICATION RATE	REMARKS
Field Corn	Wireworms	27 mL product per 80,000 seeds (0.16 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 100 mL per 80,000 seeds. Ensure that seed is adequately coloured.
Field Corn for Seed Production	Wireworms	27 mL product per 80,000 seeds (0.16 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 100 mL per 80,000 seeds. Ensure that seed is adequately coloured.
	Corn flea beetle (vector of Stewart's Wilt)	100 mL product per 80,000 seeds (0.6 mg ai per kernel)	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 190 to 240 mL per 80,000 seeds. Include in this volume 6 mL of Gustafson Pro-Ized Liquid Red Seed Colourant per 80,000 seeds. Pro-Ized Liquid Red Seed Colourant is available from Gustafson.
Sweet Corn	Wireworms	140 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 525 mL per 100 kg of seed. Ensure that seed is adequately coloured.
	Corn flea beetle (vector of Stewart's Wilt)	520 mL product per 100 kg of seed	Dilute in sufficient water to achieve uniform distribution on the seed. Apply a total slurry volume of 1000 to 1250 mL per 100 kg of seed. Include in this volume 32.5 mL of Gustafson Pro-Ized Liquid Red Seed Colourant per 100 kg of seed. Pro-Ized Liquid Red Seed Colourant is available from Gustafson.

Pre-test the germination of a small sample of each seed lot with Gaucho 480 FL Insecticide prior to commercial application to the whole lot. Carry-over of Gaucho 480 FL Insecticide treated seed is not recommended. Gaucho 480 FL Insecticide can be used as an over-treatment.

### METHOD OF APPLICATION:

Storage of Gaucho 480 FL Insecticide at low temperatures is not recommended. Prior to and during application, Gaucho 480 FL Insecticide must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10 °C prior to and during application. Do not apply direct heat to container.

### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Gaucho 480 FL Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Gaucho 480 FL Insecticide and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. 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 insecticide resistance:

- Where possible, rotate the use of Gaucho 480 FL Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Gustafson Partnership at 1-800-880-9481 or at [www.gustafson.ca](http://www.gustafson.ca).

#### **USE RESTRICTIONS:**

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown and harvested from Gaucho 480 FL Insecticide-treated mustard seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment type only) seed stored for periods in excess of 9 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 9 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.

#### **LABELLING TREATED SEED:**

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Gaucho 480 FL Insecticide seed protectant which contains imidacloprid. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs.”

#### **ENVIRONMENTAL PRECAUTIONS:**

This product is highly toxic to birds and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters. Cover or incorporate spilled treated seeds. Left over treated seed should be doublesown around the headland, or buried away from water sources.

**PRECAUTIONS:**

1. KEEP OUT OF REACH OF CHILDREN.
2. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapour or spray mist. When handling Gaucho 480 FL Insecticide or Gaucho 480 FL Insecticide-treated seed, work in a well-ventilated area and wear chemical resistant gloves. Do NOT use leather or cloth gloves.
3. Protective eye wear should be worn when handling this product.
4. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
5. 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 the acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

**TOXICOLOGICAL INFORMATION:**

Treat poisoning victims symptomatically.

**FIRST AID:**

**IF SWALLOWED:** Call a poison control center 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 center 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 the eye. Call a poison control centre or doctor for treatment advice.

**IF ON SKIN:** 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 mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**STORAGE AND DISPOSAL:**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Gaucho 480 FL Insecticide in direct sunlight. Do not store Gaucho 480 FL Insecticide above 35°C.

**DISPOSAL OF CONTAINER:****FOR NON-RETURNABLE CONTAINERS:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

#### 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.

#### FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### 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 reuse this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the total volume of water does not exceed 6 % of the container size. Add 1/3 of the rinse water to the container and swish the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6%. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:** Do not dilute beyond 6% or excess seed wetness may result in seed handling difficulties. Using excess water can also cause Gaucho 480 FL to thin resulting in settling of solids in the product. **Be sure to adjust the undiluted application rate up by 6% to compensate for the dilution of the product caused by the addition of rinsate.**

#### 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.

**Seed Quality:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**NOTICE TO USER:**

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:**

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.