



We create chemistry

SPECIMEN

# Modalex™ 600

## Seed Treatment

**Seed treatment use on canola, mustard (oilseed and condiment), and rapeseed for the control of listed insect pests.**

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

**Active Ingredient:**

clothianidin . . . . . 48.0%

**Other Ingredients:** . . . . . 52.0%

**Total:** . . . . . 100.0%

Contains 5.00 lbs clothianidin per U.S. gallon

**EPA Reg. No. 7969-458**

**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See [inside booklet] [back panel] for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

### Net Contents:

BASF Agricultural Solutions US LLC  
2 TW Alexander Drive  
Research Triangle Park, NC 27713

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance; then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Agricultural Solutions US LLC (hereafter "BASF") for emergency medical treatment information: 1-800-832-HELP (4357).</p>	
<p><b>NOTE TO PHYSICIAN:</b> No specific antidote is available. Treat the patient symptomatically.</p>	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeve shirt
- Long pants
- Chemical-resistant gloves made out of: barrier laminate, nitrile rubber  $\geq$  14 mils, butyl rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or viton  $\geq$  14 mils
- Shoes plus socks

### User Safety Requirements

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.

## USER SAFETY RECOMMENDATIONS

### Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

This product is toxic to birds, mammals and aquatic invertebrates.

Treated seeds exposed on soil surface may be hazardous to birds and mammals. Promptly cover or collect treated seed spilled during loading or planting.

This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust, which can drift to blooming crops or weeds.

### Surface Water Label Advisory

**DO NOT** apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwater or rinseate. **DO NOT** apply where runoff is likely to occur. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on the label.

### Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. Therefore contain any product spill or equipment leak and dispose of wastes according to the disposal instructions on this label.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Read the entire label before using this product.

**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. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Long-sleeve shirt
- Long pants
- Chemical-resistant gloves made out of: barrier laminate, nitrile rubber ≥ 14 mils, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils
- Shoes plus socks

**In Case of Emergency**

- In case of large-scale spill of this product, call:
- CHEMTREC 1-800-424-9300
  - BASF 1-800-832-HELP (4357)
- In case of medical emergency regarding this product, call:
- Your local doctor for immediate treatment
  - Your local poison control center (hospital)
  - BASF 1-800-832-HELP (4357)

- Steps to take if material is released or spilled:**
- Wear **Personal Protective Equipment (PPE)** and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
  - Dike and contain the spill with inert, absorbent material (e.g., sand, earth) and transfer liquid and solid diking material to separate containers for disposal. Small-scale spills of this product (that can be cleaned up with a typical spill kit) may be applied to labeled sites.
  - Remove contaminated clothing, and wash affected skin areas with soap and water.
  - Wash clothing before reuse.
  - Keep spill out of all sewers and open bodies of water.

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage, disposal, or cleaning of equipment.

**Pesticide Storage**  
Store in a cool, dry secured storage area.

**Pesticide Disposal**  
To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling**

**Nonrefillable Plastic Containers**  
**Rigid nonrefillable containers (equal to or less than 5 gallons)**  
**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

(continued)

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

#### Nonrefillable Plastic Containers *(continued)*

##### Rigid nonrefillable containers

that are too large to shake

(i.e., with capacities greater than 5 gallons or 50 lbs)

**Nonrefillable Container. DO NOT** reuse or refill this container. After emptying product from container, either return container to BASF, or rinse and either recycle or dispose of the container as follows:

##### Bottom discharge Intermediate Bulk Container (IBC) (e.g. Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

##### Top discharge IBC, drums, kegs (e.g. Snyder 120 Next Gen, Bonar B120, drums, and kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## Product Information

### Modalex™ 600 seed treatment

- Systemic insecticide seed treatment for use on canola (including *Brassica napus*, *Brassica rapa*, and *Brassica juncea*), mustard (oilseed and condiment), and rapeseed for the control of listed insects.
- Provides early season protection against the listed insect pests.

## Application Instructions

### Modalex 600

- To be used in liquid or slurry treaters. Mix thoroughly before use or use entire container at one time. Pretest all tank mixes to determine physical compatibility between formulations. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions and precautionary language of the products in the mixture.
- Treatment of highly mechanically damaged seed, or seed of known low vigor or poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of BASF, no claims are made to guarantee germination of carryover seed.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer's specifications. Surplus seed or empty seed containers must be stored or disposed according to local federal regulations.
- Treat at manufacturer's specified rate.

## Use Restrictions

- All seed treated with this product must be conspicuously colored at the time of treatment. This product contains no colorant. An EPA-approved dye or colorant must be added when this product is applied to seed to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals. Regulations pertaining to coloration of treated seed enforced by 40 CFR 153.155 must be strictly adhered to when using this product.
- For use only in commercial seed treatment facilities.
- Regardless of method of application (seed treatment, soil, or foliar), **DO NOT** apply more than 0.2 lb of active ingredient clothianidin per acre per year.
- Follow-up foliar sprays of a registered insecticide may be needed under heavy pest pressure. Consult your local Extension office for recommendations.
- **DO NOT** broadcast plant seeds.

Refer to the specific use directions and restrictions in each crop table.

## Specific Crop Directions

### Commercial Seed Treatment Facilities

**Canola (cultivars, varieties and/or hybrids, including *Brassica napus*, *Brassica rapa*, and *Brassica juncea*), Rapeseed, and Mustard (oilseed and condiment)**

Insect Pests	Product Rate fl ozs/100 lbs seed (mg ai/seed) <sup>1</sup>
Flea beetle Wireworms	3.84 * (0.00664)
	5.12 ** (0.008863)
	10.23 *** (0.01770)

\* Use this rate under **low-to-moderate** flea beetle pressure.

\*\* Use this rate under **moderate** flea beetle pressure.

\*\*\* Use this rate under **high-to-extreme** flea beetle pressure where extended control is required.

<sup>1</sup> Rate is calculated based on number of seeds/lb averages of canola (102,500).

#### Crop-specific Restrictions

- **Modalex™ 600 seed treatment** is not to be followed by a spray treatment of another neonicotinoid insecticide. Follow approved guidelines established for insect resistance management by consulting your local extension pest management expert.

Rotational Crop Plant-back Intervals			
Crop Planted	Immediate Plant-back	30-day Plant-back	4-month Plant-back
canola, rapeseed, mustard	canola, cereal grains, cotton, soybean, Brassica (cole) vegetables, bulb vegetables, cucurbit vegetables, fruiting vegetables, leafy green vegetables, mustard, root and tuber vegetables	dry beans, grasses, nongrass animal feeds	Any crop without an earlier plant-back interval

## SEED TAG LABELING

The Federal Seed Act requires that the container of seed treated with **Modalex™ 600 seed treatment** must be labeled with the following statements:

- This seed has been treated with **Modalex™ 600 seed treatment** (EPA Reg. No. 7969-458), which contains **48.0% clothianidin**.
- **DO NOT** use treated seed for food, feed, or oil production.

In addition, the US Environmental Protection Agency requires the following statements on the container of seed treated with **Modalex™ 600 seed treatment**:

- Store treated seeds away from food and feedstuffs.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves made out of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils when handling treated seed.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agromonic practice.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Promptly cover or collect treated seeds spilled during loading.
- Use planting equipment that will plant treated seed into the soil to a minimum depth of 0.5 inches or greater to minimize exposure.
- Dispose of all excess treated seed. Leftover treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.
- **DO NOT** contaminate water bodies when disposing of planting equipment washwater.
- Dispose of seed packaging or containers in accordance with local requirements. **DO NOT** use empty seed bags for any other purpose.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer's specifications. Surplus seed or empty seed containers must be stored or disposed according to local federal regulations.
- Treat at manufacturer's specified rate.
- This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust, which can drift to blooming crops or weeds.

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## SEED TAG LABELING (continued)

- This compound is toxic to birds and mammals. Treated seeds exposed on soil surface may be hazardous to birds and mammals. Promptly cover or collect treated seed spilled during loading or planting.
- **Canola, mustard, rapeseed**
  - Immediate plant-back: canola, mustard, rapeseed, cotton, cereal grains, field corn, popcorn, sweet corn, root and tuber vegetables, sorghum, soybean
  - 30 day plant-back: dry beans, grasses, nongrass animals feeds
  - 4 month plant-back: any crop without an earlier plant-back interval
- **DO NOT** apply a neonicotinoid insecticide foliar spray after planting treated seed. Follow approved guidelines established for insect resistance management by consulting your local extension pest management expert.
- Follow-up foliar sprays of registered insecticide may be needed under heavy pest pressure. Consult your local Extension office for recommendations.
- **Restrictions:**
  - **DO NOT** broadcast plant seeds.
  - **DO NOT** apply more than 0.2 lb ai/A of clothianidin per year (including seed treatment, foliar, or in-furrow).
  - **DO NOT** use **Modalex™ 600 seed treatment** in areas where rice/crawfish aquaculture practices are in place or in or near fish farms; shrimp, prawn, or crab ponds; or nursery operations.
- **Canola, rapeseed, mustard** - Treated at the rate of XX fluid ounces per 100 lbs of seed will result in XX grams of clothianidin per 100 lbs of seed.



## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of the product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF Agricultural Solutions US LLC ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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