



We create chemistry

Broflanilide

Group

30

Insecticide

# Nurizma™

## Insecticide

† **For control of soil insects in corn and tuberous and corm vegetables**

† See **Detailed Use Directions** for detailed crop listings.

**Active Ingredient\*:**

broflanilide: 3-(benzoylmethylamino)-N-[2-bromo-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-6-(trifluoromethyl)phenyl]-2-fluorobenzamide . . . . . 25.97%

**Other Ingredients:** . . . . . 74.03%

**Total:** . . . . . 100.00%

\*Nurizma™ insecticide contains 2.5 lbs broflanilide per gallon.

**EPA Reg. No. 7969-423**

**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 full label 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>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything 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 an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for 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>
HOTLINE NUMBER	
<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>	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. 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-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks

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

### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**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 disposing of equipment washwater or rinsate.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds while bees or other pollinating insects are foraging in the treatment area.

### Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical has the potential to leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

## Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching aquatic sediment via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this active ingredient or its degradates from runoff water and sediment.

Runoff of this product will be reduced by avoiding application when rainfall is forecast to occur within 48 hours.

Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the user's possession during application. Read the entire **Directions For Use** and **Conditions of Sale and Warranty** 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 agency responsible for pesticide regulation.

**Nurizma™ insecticide** is not for sale, distribution, or use in Nassau and Suffolk counties in New York State.

Construct and maintain a minimum 15-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing broflanilide onto fields where a maintained vegetative buffer strip of at least 15 feet exists between the field and down gradient aquatic habitat. For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 25pp.  
[https://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1044706.pdf](https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044706.pdf)

## 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, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. 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**.

**EXCEPTION:** If the product is soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

- Coveralls
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks

## STORAGE AND DISPOSAL

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

### Pesticide Storage

Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed.

### Pesticide Disposal

Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

### Container Handling

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

(continued)

## STORAGE AND DISPOSAL (continued)

### Container Handling (continued)

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or 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.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

(continued)

## STORAGE AND DISPOSAL (continued)

### Container Handling (continued)

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

### 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:

- In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

### Product Information

Apply and incorporate **Nurizma™ insecticide** into the soil to control specified below-ground insects.

### Mode of Action

Broflanilide, the active ingredient in **Nurizma**, binds to an inter-subunit allosteric site on the GABA receptor, resulting in a block of inhibitory neurotransmission, convulsions and death of target insects, and is classified by the Insecticide Resistance Action Committee (IRAC) as a **Group 30** insecticide (GABA-gated chloride channel allosteric modulators).

## Resistance Management

**Nurizma™ insecticide** contains a **Group 30** insecticide. Any insect population may contain individuals naturally resistant to **Nurizma** or other **Group 30** insecticides. These resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields.

Although insecticide resistance cannot be predicted, a general rule to reduce the onset of resistance is to not consecutively and repeatedly apply **Group 30** insecticides during a growing season for control of particular insects. Where possible, multiple pest control tools in addition to chemical control should be used as part of an integrated pest management (IPM) approach. BASF encourages responsible product stewardship to ensure effective longterm control of the insects on this label. Consult your state or local agricultural authorities or your BASF representative for more specific details on insect resistance management strategies.

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### Application Instructions

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For in-furrow use:

- When using flat-fan nozzles, align nozzles with the row to direct spray into the open furrow. **Nurizma** must be covered with soil immediately after application.
- **Minimum spray volume per acre** - Dilute **Nurizma** in a minimum of 5 gallons of water per acre.
- **Nurizma** can be directly injected into the suction or pressure line(s) of an in-furrow liquid spray application system if the product is uniformly dispersed into the solution.
- **DO NOT** apply more than 2.3 fl ozs per acre of **Nurizma** [0.0445 lb active ingredient (ai) per acre] per application and/or per year total, including seed treatment (when applicable) and soil application.

## Compatibility Test

Before mixing components, always perform a compatibility jar test.

1. Add components in the order listed in **Mixing Order** instructions.
  - **For 5 gallons per acre volume:** Start with 1 cup of water from the intended source at the source temperature.
  - **For other spray volumes:** Adjust rates accordingly.
  - **Dry product:** Add 2 teaspoons per pound of product per acre.
  - **Liquid product:** Add 1/2 teaspoon per pint of product per acre.
2. Always cap the jar and invert 10 cycles after component additions.
3. When the components have all been added to the jar, let the solution stand for 15 minutes.
4. **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, fine particles that precipitate to the bottom, or thick (clabbered) texture. **DO NOT** use any solution that could clog spray nozzles.

## Mixing Order

Make sure each component is thoroughly mixed and suspended before adding tank mix partners. Except when mixing products in PVA bags, maintain constant agitation during mixing and application. Use solution immediately after mixing.

1. **Water** - Fill a thoroughly clean sprayer tank 3/4 full of clean water and begin agitation.
2. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been added.
3. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
4. **Water-dispersible products** (such as dry flowables, wettable powders, suspension concentrates including Nurizma, or suspo-emulsions)
  - **Containers 5 gallons or less:** Shake well before adding to the tank.
  - **Containers more than 5 gallons:** Recirculate before adding to the tank.
  - Consult a BASF representative for additional information regarding agitation and recirculation.
5. **Water-soluble products**
6. **Emulsifiable concentrates** (such as oil concentrates when applicable)
7. **Water-soluble additives** [such as ammonium sulfate (AMS) or urea ammonium nitrate (UAN) when applicable]
8. **Remaining quantity of water**

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### Plant Back Intervals (PBIs)

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Immediate plant back (PBI) for all crops except for leafy vegetables (60-day PBI).

## Detailed Use Directions

### Corn (All Types) †

Insects Controlled		Rate* (fl oz/1000 linear ft)
In-furrow	Corn rootworm larvae (northern, western) Seedcorn maggot White grubs Wireworms	0.05 to 0.07
	<b>• In-furrow Use Only</b> - Apply through spray nozzles or microtubes into the open seed furrow, between the planter furrow openers and press wheels. <b>Nurizma™ insecticide</b> must be covered with soil immediately after application.	

\* See **Conversion Table** for additional row spacings.

- **DO NOT** apply more 0.0445 lb active ingredient per acre per application and/or per year total, including seed treatment (when applicable) and soil application.

#### State Specific Restrictions:

† Not registered for use by California.

**Detailed Crop List** - corn grown for seed, field corn, popcorn, sweet corn, teosinte.

### Conversion Table

Nurizma Required Per Acre for Various Row Spacings in Corn						
Rate per 1000 Row Feet (fl oz product)	Rate per Acre (fl ozs product)					
	15" rows	20" rows	30" rows	34" rows	36" rows	Twin rows
Row Feet/Acre	34,848	26,136	17,424	15,374	14,520	34,848
<b>0.05</b>	1.7	1.3	0.9	0.8	0.7	1.7
<b>0.07</b>	2.3	1.7	1.1	1.0	1.0	2.3



## Tuberous and Corm Vegetables Subgroup 1C

Insects Controlled	Rate* (fl oz/1000 linear ft)
† White grubs Wireworms	0.08 to 0.16
<ul style="list-style-type: none"> <li>Make one <b>in-furrow</b> application at time of planting only. Application must be done in-furrow as a 5-inch to 7-inch wide spray. Adjust nozzle height and orientation to avoid application to soil surface. <b>Nurizma™ insecticide</b> must be thoroughly incorporated and covered with soil immediately after application. <b>DO NOT</b> apply over the top of a closed furrow.</li> </ul>	
<p>* See <b>Conversion Table</b> for additional row spacings.</p> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more 0.0445 lb active ingredient per acre per application and/or per year total, including seed treatment (when applicable) and soil application.</li> </ul> <p>Under cropping systems that foster high wireworm pressure, use the highest labeled rate of <b>Nurizma</b> as part of a complete wireworm IPM program.</p> <p><b>State Specific Restrictions:</b> † Not for use in California.</p>	
<p><b>Detailed Crop List</b> - potato, arracacha, arrowroot, artichoke (Chinese, Jerusalem), canna (edible), cassava (bitter, sweet), chayote (root), chufa, dasheen (taro), ginger, leren, sweet potato, tanier, turmeric, yam bean, yam (true).</p>	

### Conversion Table

Nurizma Required Per Acre for Various Row Spacings in Potato					
Rate per 1000 Row Feet (fl oz product)	Rate per Acre (fl ozs product)				
	30" rows	34" rows	36" rows	38" rows	40" rows
Row Feet/Acre	17,424	15,374	14,520	13,756	13,068
<b>0.08</b>	1.3	1.2	1.1	1.1	1.0
<b>0.16</b>	2.3 <sup>a</sup>	2.3 <sup>b</sup>	2.3	2.2	2.0
<sup>a</sup> For 2.3 fl ozs/A rate in 30-inch row spacing, use 0.13 fl oz/1000 ft					
<sup>b</sup> For 2.3 fl ozs/A rate in 34-inch row spacing, use 0.15 fl oz/1000 ft					

## 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, 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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