



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

EPA Reg. Number:
7969-352

Date of Issuance:
FEB 24 2014

Term of Issuance:
Unconditional

Name of Pesticide Product:
Xemium® 703 fungicide ST

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

BASF Corporation
P.O. Box 13528, 26 Davis Drive
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA Sec. 3(c)(5) with the following terms:

1. You will revise the EPA Registration Number to read "EPA Reg. No. 7969-352."
2. Submit two (2) copies of your final printed labeling before releasing the product for shipment.

If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3). A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Olga Odiott at 703-308-9369.

Signature of Approving Official:

Michael Walsh, Acting Product Manager 13
Insecticide Branch/Registration Division (7505P)

Date:

FEB 24 2014

Enclosure: Stamped label



The Chemical Company

Group 7 11 Fungicide

ACCEPTED
FEB 24 2014
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under EPA Reg. No. 7969-352

Xemium® 703

fungicide ST

For seed treatment use in brassica vegetables, bulb vegetables, corn, cotton, cucurbit vegetables, leafy vegetables, rapeseed, root and tuber vegetables, and soybean

Active Ingredients:

fluxapyroxad*: 1 <i>H</i> -Pyrazole-4-carboxamide, 3-(difluorómethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-	21.26%
pyraclostrobin**: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1 <i>H</i> -pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester)	21.26%

Other Ingredients: 57.48%

Total: 100.00%

* Equivalent to 2.09 pounds of fluxapyroxad per gallon.
** Equivalent to 2.09 pounds of pyraclostrobin per gallon.

EPA Reg. No. 7969-XXX

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO**

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 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:

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • 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 to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • 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 center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
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 Corporation for emergency medical treatment information at 1-800-832-HELP (4357).</p>	

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. May be fatal if swallowed. Harmful if inhaled. Avoid breathing spray mist.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. For more options, refer to **Category A** on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves (such as natural rubber, nitrile, butyl, neoprene and/or barrier laminate)
- 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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 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 discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National

Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

Directions For Use

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

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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.

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.

(continued)

STORAGE AND DISPOSAL (continued)

Container Handling (continued)

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.

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 spillage regarding this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 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 Corporation 1-800-832-HELP (4357)

Steps to be taken in case 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.

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Product Information

Xemium® 703 fungicide ST is a liquid broad-spectrum fungicide that provides preventive seed and seedling protection from several seed and soilborne diseases. Make all applications according to the use directions in this label. Use the higher rates of **Xemium 703** when disease pressure is expected to be high.

Resistance Management

The active ingredients in **Xemium 703**, fluxapyroxad and pyraclostrobin, belong to the groups of respiration inhibitors classified by the U.S. EPA and Canada PMRA as target site of action **Group 7** and **Group 11** fungicides. Due to the minimal amounts of active ingredient in **Xemium 703** applied to the seed, the potential for development of resistance is low. Seed treatments of **Xemium 703**, therefore, can be followed by foliar use and resistance management guidelines of foliar use fungicides containing fluxapyroxad and pyraclostrobin as specified on the respective labels.

Application Instructions

For use at commercial treatment facilities. Not for use on farm.

Apply **Xemium 703** as a water-based mixture using standard slurry or mist-type seed treatment application equipment. The exact amount of water needed to provide the mixture or slurry rate (ml/100 kg or oz/cwt of seed) for optimum coverage depends on weather conditions (hot or cold), seed type and surface, and equipment used all have a bearing on coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop seed to be treated with **Xemium 703**. The required amount of **Xemium 703** must then be diluted with the specified amount of water that will provide uniform and complete coverage on the seed surface. Uniform application on seed and complete seed coverage are necessary for seed safety and best disease protection. Seed must be of a good quality and well cleaned prior to treatment.

The purchaser of **Xemium 703** is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent accidental use as food for man or feed for animals. Refer to 21CFR, Part 2.25. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed. Any dye or colorant added to treated seed must be cleared for use under 40CFR, Part 180.900, "Exemptions from the requirement of a tolerance". Federal regulations have established official tolerances or exemptions from tolerances for residues on food and forage crops that must not be exceeded when the product (dye or colorant) is used at specified rates.

Consult a seed treatment specialist for calibration and operation procedures of the seed treatment equipment being used. Mechanical agitation is required for proper mixing of **Xemium 703**. Prepare no more mixture of **Xemium 703** than needed for immediate treating. Add 3/4 of the required volume of water to the mix tank. With

mechanical agitation running, add the required amount of **Xemium 703** in the tank along with other seed treatment components. Add the remaining 1/4 amount of the required volume of water. Use the mixing sequence that follows. Agitate thoroughly before and during application.

Xemium 703 with Tank Mix Partners

Xemium 703 mixes easily with water and other water-based seed treatments. When using **Xemium 703** in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations that appear on the tank mix partner label. Label dosage or application rate must not be exceeded, and the most restrictive label precautions and limitations must be followed. **Xemium 703** must not be mixed with any product that prohibits such mixing. All applications must be made according to the use directions.

When mixing **Xemium 703** with seed treatment products, test the compatibility prior to use by conducting a jar test as follows:

1. Mix all intended seed treatments with the appropriate amount of water in a clear glass container.
2. Mix well and allow to sit for 1 hour.
3. Remix and observe for incompatibility.

Physical compatibility is only part of compatibility. Testing also needs to be done with the seed to make sure the combination of products does not have detrimental effects on the seed.

Tank Mixing Instructions

1. Add 3/4 of the required amount of water to the mix tank and turn on the mechanical agitation.
2. Use the following mixing sequence: dye or colorant, wettable powders, soluble powders, flowable formulations, emulsifiable concentrates, and remaining 1/4 of the required water. The 1/4 of the required water as the last item for addition to the premix tank can be used as rinse for the chemical container or to adjust the total slurry to compensate for water displacement by powdered products.
3. Maintain agitation until the entire slurry mixture has been used.
4. Ensure that seed is dry prior to bagging.

SEED LABELING NOTE: Federal law requires that bags of treated seed shall be labeled with the following: **"This seed has been treated with Xemium® 703 fungicide ST containing fluxapyroxad and pyraclostrobin. DO NOT use for food, feed or oil purposes. Store away from food and feedstuffs."**

The seed label should also include the following: **"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 agronomic practice."**

Xemium® 703 fungicide ST Crop-specific Use Directions for Seed Treatment

Crop	Target Disease	Product Use Rate ml/100 kg seed (gram ai/100 kg seed)	Product Use Rate* fl ozs/100 lbs seed (lb ai/100 lbs seed)
<p>Brassica vegetables (includes head and stem and brassica leafy greens) Broccoli Broccoli, Chinese Broccoli, raab Brussels sprouts Cabbage Cabbage, Chinese Cabbage, Chinese mustard Cauliflower Cavalo broccolo Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens</p>	<p>Seed decay and seedling damping-off caused by <i>Rhizoctonia solani</i>, <i>Phoma lingam</i>, and other seedborne fungi.</p>	<p>133 to 160 (67 to 80)</p>	<p>1.25 to 2.5 (0.067 to 0.08)</p>
<p>Bulb vegetables Garlic Leek Onions (all varieties) Shallot</p>	<p>Seed decay and seedling damping-off caused by <i>Rhizoctonia solani</i>, <i>Botrytis</i> spp., <i>Aspergillus</i> spp., and <i>Penicillium</i> spp.</p>	<p>133 to 160 (67 to 80)</p>	<p>1.25 to 2.5 (0.067 to 0.08)</p>
<p>Corn</p>	<p>Seed and seedling damping-off caused by <i>Rhizoctonia solani</i>. Suppression of seed decay and seedling damping-off caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Penicillium oxalicum</i>, <i>Aspergillus flavus</i>, and other seedborne fungi.</p>	<p>20 to 40 (10 to 20)</p>	<p>0.307 to 0.614 (0.01 to 0.02) (0.026 to 0.05 mg ai per seed)¹</p>
<p>Cotton</p>	<p>Seed and seedling damping-off caused by <i>Rhizoctonia solani</i>. Suppression of seed and seedling disease caused by <i>Fusarium</i> spp. and <i>Pythium</i> spp.</p>	<p>80 (40)</p>	<p>1.23 (0.04) (0.04 mg ai per seed)²</p>

(continued)

Xemium® 703 fungicide ST Crop-specific Use Directions for Seed Treatment (continued)

Crop	Target Disease	Product Use Rate ml/100 kg seed (gram ai/100 kg seed)	Product Use Rate* fl ozs/100 lbs seed (lb ai/100 lbs seed)
<p>Cucurbit vegetables (includes all types and hybrids of)</p> <p>Cantaloupe Chayote Chinese waxgourd Citron melon Cucumber Edible gourds Gherkin Muskmelon Pumpkin Summer squash Watermelon Winter squash Zucchini</p> <p>Momordica spp. (such as)</p> <p>Balsam apple Balsam pear Bitter melon Chinese cucumber</p>	<p>Seed decay and seedling damping-off caused by <i>Rhizoctonia solani</i> and other seedborne fungi.</p>	<p>120 (60)</p>	<p>1.85 (0.06)</p>
<p>Leafy vegetables</p> <p>Arugula Cardoon Celery Celery, Chinese Celtuce Chervil Chrysanthemum, edible-leaved and garland Corn salad Cress, garden and upland Dandelion Dock Endive Fennel, Florence Lettuce, head and leaf Orach Parsley Purslane, garden and winter Radicchio, red chicory Rhubarb Spinach Spinach, New Zealand and vine Swiss chard</p>	<p>Seed decay and seedling damping-off caused by <i>Rhizoctonia solani</i>, <i>Stemphylium spp.</i>, and <i>Botrytis spp.</i></p>	<p>120 (60)</p>	<p>1.85 (0.06)</p>

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Xemium® 703 fungicide ST Crop-specific Use Directions for Seed Treatment (continued)

-- Crop	Target Disease	Product Use Rate ml/100 kg seed (gram ai/100 kg seed)	Product Use Rate* fl ozs/100 lbs seed (lb ai/100 lbs seed)
Rapeseed (Cultivars, varieties and/or hybrids, including canola and crambe)	Seed and seedling damping-off caused by <i>Rhizoctonia solani</i> . Suppression of black leg (<i>Phoma lingam</i>), seed and seedling disease caused by <i>Fusarium</i> spp. and <i>Alternaria</i> spp.	20 to 40 (10 to 20)	0.307 to 0.614 (0.01 to 0.02)
Root and tuber vegetables subgroup (except sugar beet) Black salsify Carrot Celeriac Chervil, turnip-rooted Chicory Edible burdock Garden beet Ginseng Horseradish Oriental radish Parsley, turnip-rooted Parsnip Radish Rutabaga Skirret Spanish salsify Turnip	Seed decay and seedling damping-off caused by <i>Rhizoctonia solani</i> , <i>Alternaria</i> spp., and other seedborne fungi.	120 (60)	1.85 (0.06)
Soybean	Seed and seedling damping-off caused by <i>Rhizoctonia solani</i> and <i>Fusarium solani</i> . Suppression of seed and seedling disease caused by <i>Fusarium</i> spp., <i>Phomopsis</i> spp., and <i>Pythium</i> spp. Early season suppression of seed and seedling disease caused by <i>Phytophthora sojae</i> .	20 to 40 (10 to 20)	0.307 to 0.614 (0.01 to 0.02) (0.016 to 0.032 mg ai per seed) ³

*mg ai per seed rates based on the following seed weights:

¹ Corn: 1767 seeds per pound

² Cotton: 4500 seeds per pound

³ Soybean: 2800 seeds per pound

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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 CORPORATION ("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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Xemium® 703 fungicide ST is specially formulated and sold by BASF for the control of pests according to the directions on this label. The purchase price of **Xemium 703** includes a royalty whereby the purchaser acquires a prepaid license under U.S. Patent No. 5,438,070 and (pending No. 2008/0153707 A1) under which purchaser agrees to employ the purchased quantity of **Xemium 703** only for the above-specified uses under BASF's United States patent rights and to provide notice of the terms and conditions of this license to any subsequent purchaser. Uses of **Xemium 703** other than those specified on this label are not licensed through the purchase of this product and the use of this product for other purposes may violate this license and patent rights of BASF.

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007969-00XXX.20120606c.NVA 2012-04-406-0106

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