

241-427

8-8-2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr Charles Levey  
BASF Corporation  
Agricultural Products  
26 Davis Drive  
Research Triangle Park, NC 27709

AUG 8 2008

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Mr. Levey:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated June 18, 08 for:

**EPA Registration 241-427      Forum Fungicide**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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United States Environmental Protection Agency Washington, DC 20460

- Registration
Amendment
Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: 241-427
2. EPA Product Manager: Mary Waller
3. Proposed Classification: [X] None [ ] Restricted
4. Company/Product (Name): Forum Fungicide
PM#: 21
5. Name and Address of Applicant: BASF Corporation, 26 Davis Dr., Durham, NC 27709
6. Expedited Review: In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. NOTIFICATION, Product Name AUG 08 2008

Section - II

Amendment - Explain below. [ ]
Resubmission in response to Agency letter dated [ ]
Notification - Explain below. [X]
Final printed labels in response to Agency letter dated [X]
'Me Too' Application. [ ]
Other - Explain below. [ ]

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

'Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.'

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other (Specify)
3. Location of Net Contents Information: [ ] Label [ ] Container
4. Size(s) Retail Container
5. Location of Label Directions
6. Manner in Which Label is Affixed to Product: [ ] Lithograph Paper glued Stenciled [ ] Other

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)
Name: Charles T. Levey, Title: Product Registration Manager, Telephone No.: 919-547-2059
Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature: Charles T. Levey, 3. Title: Product Registration Manager, 4. Typed Name: Charles T. Levey charles.levey@basf.com, 5. Date: June 17, 2008, 6. Date, Application Received (Stamped)



The Chemical Company

June 18, 2008

Ms. Mary Waller (PM 21)  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Subject: Label Notification for Forum Fungicide (EPA Reg. No. 241-427) per PR Notice 2007-4.**

Dear Ms. Waller,

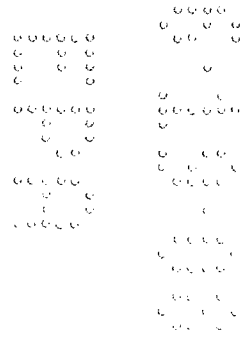
BASF Corporation is submitting a final label notification in response PR Notice 2007-4 for the subject product registration. Please call me at 919-547-2059 or email at [charles.levy@basf.com](mailto:charles.levy@basf.com), if you have any questions in regards to this submission. Thanks in advance for your cooperation.

Respectfully,

Charles T. Levey  
Product Registration Manager  
BASF Corporation

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BASF Corporation  
Agricultural Products  
26 Davis Drive  
Research Triangle Park, NC 27709  
Tel: (800) 669-1770  
[www.agproducts.basf.com](http://www.agproducts.basf.com)





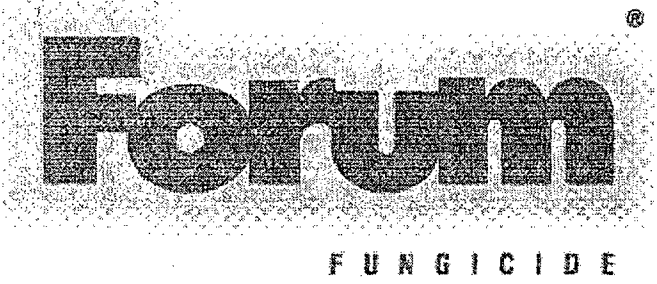
The Chemical Company

Group 15 Fungicide

7/18

NOTIFICATION

AUG 08 2008



For Use in Brassica Leafy Vegetables, Bulb Vegetables, Cucurbit Vegetables, Fruiting Vegetables, Hops, Lettuce, Potatoes, Taro, Tobacco and Field Grown Tomatoes.

<b>Active Ingredient:</b>	
dimethomorph*	43.5%
<b>Other Ingredients:</b>	56.5%
<b>Total:</b>	100.0%

\*Equivalent to 4.17 pounds dimethomorph per gallon.

EPA Reg. No. 241-427  
U.S. Patent No. 5,952,496

EPA Est. No. \_\_\_\_\_

KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this 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: \_\_\_\_\_

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

## 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 by mouth to an unconscious person.</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

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: 1-800-832-HELP (4357).

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### Environmental Hazards

**DO NOT** apply directly to water, 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 washwaters.

## 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 when wind conditions favor drift.

**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.

#### 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) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

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

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, wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.
- Shoes plus socks

## Storage and Disposal

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

**Pesticide Storage:**

Store in a cool, well-ventilated area. **DO NOT** allow to become overheated in storage. Keep container closed when not in use.

**Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Disposal**

**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 puncture and dispose of in an approved sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse containers small enough 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 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 2 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 2 more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain 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.

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**GENERAL INFORMATION**

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**THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF FUNGICIDE APPLICATION.**

**DO NOT** apply this product through any type of irrigation system unless the label instructions on chemigation are followed. See below for **Chemigation Use Directions**.

**Forum® fungicide** should be used in a preventive spray program to manage the target diseases. Maximum results can only be achieved by thorough plant coverage. **Forum** must be used in accordance with this label.

It is recommended that this product be used within an Integrated Pest Management (IPM) Program.

Fungus strains have developed resistance to some fungicides after repeated use. Since the development of resistance cannot be predicted, **Forum** should always be used in a resistance management program. Tank mixing and thorough spray coverage are necessary to minimize the development of fungus strains with resistance to **Forum**.

In order to reduce the risk of the development of fungicide resistance, **Forum** must be used as a tank mix with a fungicide that has a different mode of action (non-**Group 15** fungicides) and is effective against the pathogen of concern.

**Forum** is not for use in greenhouse or transplant production.

The use of **Forum** in all tobacco transplant production systems (including greenhouse, float-beds, and traditional ground beds) is **STRICTLY PROHIBITED**.

**DO NOT** use **Forum** in transplant water.

Carefully read, understand, and follow all directions and precautions.

Disease pressure, plant growth rate, and environmental conditions will determine the length of the spray interval and the rate of **Forum**. Consult local disease forecast advisory system recommendations to determine the predicted disease pressure and the associated application rates and intervals. Sprayers should be properly calibrated before application. Determine the size of the area to be sprayed and the output rate to determine the quantities of **Forum** and water needed for accurate application. Apply material with adequate spray pressure, water volume, and proper nozzle arrangement to provide full coverage.

**Mode of Action**

Dimethomorph, the active ingredient of **Forum**, belongs to the group of cell wall synthesis inhibitors, classified by the USEPA and Canada PMRA as Target Site of Action **Group 15** fungicides.

**RESISTANCE MANAGEMENT**

**Forum** contains dimethomorph, a **Group 15** fungicide, and is effective against pathogens resistant to fungicides with modes of action different from **Group 15**. Fungal isolates resistant to **Group 15** fungicides may eventually dominate the fungal population if **Group 15** fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species. This may result in reduction of disease control by **Forum** or other **Group 15** fungicides.

To maintain the performance of **Forum** in the field, **DO NOT** exceed the total number of sequential applications of **Forum** and the total number of applications of **Forum** per season stated in the **DIRECTIONS FOR APPLICATION** section. Adhere to the label instructions regarding the consecutive use of **Forum** or other target site of action

**Group 15** fungicides that have a similar site of action on the same pathogens.

**The following recommendations may be considered to delay the development of fungicide resistance:**

**1. Tank mixtures:** Use tank mixtures with fungicides from different target site of action groups that are registered/permitted for the same use and that are effective against the pathogens of concern. BASF recommends using at least the minimum labeled rates of each fungicide in the tank mix.

**2. IPM: Forum® fungicide** should be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. Consult your local extension specialist, certified crop advisor and/or BASF representative for additional IPM strategies established for your area. **Forum** may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favorable for disease development.

**3. Monitoring:** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development. If a **Group 15** target site fungicide, such as **Forum**, appears to be less effective against a pathogen that it previously controlled or suppressed, contact a BASF representative, local extension specialist, or certified crop advisor for further investigation.

**ADDITIVES AND GENERAL TANK MIXING INFORMATION**

**Forum** can be tank mixed with most recommended fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives, as specified in the crop specific recommendations in the **DIRECTIONS FOR APPLICATION** section of this label. Under some conditions, the use of additives or adjuvants may improve the performance of **Forum**; however, all varieties and cultivars have not been tested with all possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Forum** with other products. Therefore, before using any tank mix (fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants and additives), test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.

**MIXING INSTRUCTIONS**

Fill the spray tank until it is approximately 1/2 full with clean water. Shake the **Forum** container well, then slowly add **Forum** to the spray tank while agitating. Agitation must be engaged prior to the addition of the product to obtain a complete and uniform mixture of **Forum**.

Limit amount of spray mixture prepared to that needed for immediate use.

**Mixing Order**

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) **Products in PVA bags:** Place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 3) **Water-dispersible products:** (wettable powders, dry flowables, suspension concentrates, including **Forum**, or suspo-emulsions).
- 4) **Water-soluble products.**
- 5) **Emulsifiable concentrates:** (oil concentrate or methylated seed oil, when applicable).
- 6) **Water-soluble additives:** (ammonium sulfate or urea ammonium nitrate, when applicable).
- 7) **Remaining quantity water.**  
Maintain maximum constant agitation during application. Thorough agitation is required if the mixture is allowed to stand for a prolonged period of time.

**COMPATIBILITY**

**The tank mixing behavior of this fungicide with other pesticides has not been fully investigated.** If tank mixing with other pesticides is desirable, conduct a jar test with rates and volumes of carrier typically used in an agricultural application. Look for signs of separation, globules, sludge, flakes or other precipitates. **DO NOT** tank mix with the other pesticides if the jar test with **Forum** has indicated incompatibility.

**TANK MIXES WITH FUNGICIDES**

**DO NOT apply Forum alone. Forum must be** used in a tank mix with a fungicide that has a different mode of action (non-**Group 15** fungicide) and is effective against the pathogen of concern. Refer to the respective tank mix partner labeling for rates, methods of application, proper timing, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. **DO NOT** use a pesticide product that contains a prohibition against tank mixing.

**AERIAL SPRAY APPLICATIONS**

**Aerial application is permitted for all labeled crops except hops.** Prior to aerial application, check the aircraft for uniformity of spray pattern, spray swath width and output. If hollow cone or whirlplate nozzles are used, it is recommended that they be positioned straight down or slightly backward. When using nozzles that produce relatively straight streams (e.g. D-series orifice with no core), the recommended positioning is straight back or slightly down from back. Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. If foliage is dense, use an output that will ensure optimum fungicide penetration. Spray swaths should be marked using flaggers who are in completely enclosed vehicles,

by counting rows, or by using some other marking device. **DO NOT** apply when weather conditions favor drift.

### **CHEMIGATION USE DIRECTIONS**

**Forum® fungicide** can be applied prior to the onset of disease infection on a regular protectant spray schedule, not an irrigation schedule.

Chemigation applications must be made according to the crop-specific spray schedule interval recommendation in the **DIRECTIONS FOR APPLICATION** section of this label and may depend on disease pressure and environmental conditions. Consult local disease control advisory system recommendations to determine the predicted disease pressure and the associated application rates and intervals. Chemigation applications may need to be supplemented with ground or aerial applications if irrigation cycles are less frequent than what is recommended on the label to obtain optimum control.

Apply **Forum** only through sprinkler irrigation systems including center-pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems. **DO NOT** apply product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

The irrigation system must be correctly calibrated (with water only) to ensure that the recommended rate of **Forum** is applied.

**DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ) backflow preventer, or the functional equivalent, in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. The system should have properly working nozzles providing

the recommended output and pattern. The chemigation system should also be free of leaks.

#### **Overhead sprinkler irrigation system requirements:**

1. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2. The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
5. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point that pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

#### **The following routine checks will help to ensure that the sprinkler irrigation system is working properly:**

1. Use a calibrated injection metering pump, as specified by the manufacturer.
2. Metering pumps, the supply tank, and any associated equipment must be clean and dry before adding diluted **Forum** to the system for injection.
3. Check the metering pump periodically to confirm that **Forum** is being injected continuously and at the proper calibration throughout the irrigation period.
4. Continuous agitation must be maintained in the supply tank during the entire overhead sprinkler irrigation period.

#### **Center Pivot, and Lateral Move Irrigation Equipment**

(Use only with electric or oil hydraulic drive systems which provide a uniform water distribution)

1. Determine size of area to be treated.
2. Determine the time required to apply the least amount of water. No more than 0.2 inches of water should be applied over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer's rated capacity.
3. Using only water, determine the injection pump output when operated at normal line pressure.
4. Determine the amount of **Forum** fungicide required to treat area.



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5. Add the required amount of **Forum® fungicide** and sufficient water to meet the injection time requirements of the solution tank.
6. Maintain constant solution tank agitation during the injection period.
7. Stop injection equipment after treatment is completed. Continue to operate the system until **Forum** fungicide solution has cleared the last sprinkler head.

**Solid-Set, Side (wheel) Roll, and Hand Move Irrigation Equipment:**

1. Determine acreage covered by sprinkler.
2. Fill injector solution tank with water and adjust flow rate to use contents over a 10- to 30-minute interval.
3. Determine the amount of **Forum** fungicide required to treat the area.
4. Add the required amount of **Forum** fungicide into the same quantity of water used to calibrate the injection equipment.
5. Maintain constant solution tank agitation during the injection period.
6. Operate system at normal pressures recommended by the manufacturer of the injection equipment and use for the time interval established during calibration.
7. Inject **Forum** fungicide at the end of the irrigation cycle, or as a separate application, to maximize foliar fungicide retention.
8. Stop injection equipment after treatment is completed. Continue to operate the system until **Forum** solution has cleared the last sprinkler head.

**DIRECTIONS FOR APPLICATION**

Maximum benefit of **Forum® fungicide** from foliar applications requires thorough coverage of the plant. To obtain thorough coverage of foliage, use proper spray pressure and a minimum of 20 gallons per acre for ground applications and 5 gallons per acre for aerial applications.

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
<p><b>Brassica Leafy Vegetables</b></p> <p><b>Leafy:</b>                      Broccoli raab                      Chinese Cabbage (Bok Choy)                      Collards                      Kale                      Mizuma                      Mustard Greens                      Mustard Spinach                      Rape Greens</p> <p><b>Head and Stem:</b>                      Broccoli                      Chinese Broccoli                      Brussels Sprouts                      Cabbage                      Chinese Cabbage (Napa)                      Chinese Mustard                      Cauliflower                      Cavalo broccolo                      Kohlrabi</p>	<p>Downy Mildew (<i>Peronospora parasitica</i>)</p>	<p>6</p>	<p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when conditions favor disease development. Continue applications on a 7-day spray schedule, as needed, until weather conditions favoring infection and sporulation decrease.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>Leafy Brassica Greens may be harvested on the day of the last application after sprays have dried.</p> <p><b>DO NOT</b> apply within 7 days of harvest of Brassica Head and Stem Vegetables</p>
<p><b>Bulb Vegetables</b></p> <p>Garlic                      Garlic, great-headed                      Leek                      Onion, dry bulb                      Onion, green                      Onion, Welch                      Shallot</p>	<p>Downy Mildew (<i>Peronospora destructor</i>)</p>	<p>6</p>	<p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when conditions favor disease development. Continue applications on a 5- to 7-day spray schedule, as needed, until weather conditions favoring infection and sporulation decrease.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>Bulbs or leaves may be harvested on the day of the last application after sprays have dried.</p>

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
<p><b>Cucurbit Vegetables</b></p> <p>Cantaloupe Chayote Chinese waxgourd Citron melon Cucumber Gherkin Gourd, edible Melon <i>Momordica</i> spp. Muskmelon Pumpkin Squash, summer Squash, winter Watermelon</p>	<p>Downy Mildew (<i>Pseudoperonospora cubensis</i>)</p>	<p>6</p>	<p><b>Forum® fungicide</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications prior to the onset of disease infection. Continue applications on a 5- to 10-day spray schedule. Use shorter spray intervals when disease pressure is higher.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>Cucurbits may be harvested on the day of the last application after sprays have dried.</p>
<p><b>Cucurbit Vegetables (continued)</b></p> <p>Cantaloupe Chayote Chinese waxgourd Citron melon Cucumber Gherkin Gourd, edible Melon <i>Momordica</i> spp. Muskmelon Pumpkin Squash, summer Squash, winter Watermelon</p>	<p>Phytophthora Blight or Crown Rot (<i>Phytophthora capsici</i>)</p>	<p>6</p>	<p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when plants are 4 to 6 inches high or prior to the onset of disease infection and spray to runoff. Applications should be made on a 5- to 7-day spray schedule under higher disease pressure and on a 7- to 10-day spray schedule under low to moderate disease pressure.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>Cucurbits may be harvested on the day of the last application after sprays have dried.</p>

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
<p><b>Fruiting Vegetables (except Tomato)</b></p> <p>Eggplant Ground cherry Pepino Pepper (all varieties) Tomatillo</p>	<p><b>Suppression only</b> Phytophthora blight (<i>Phytophthora capsici</i>)</p>	<p>6</p>	<p><b>Forum® fungicide</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when plants are 4 to 6 inches high and prior to the onset of disease infection. Apply on a 5- to 10-day spray schedule. Prior to the onset of conditions favoring infection, apply every 7 to 10 days. When environmental conditions have been conducive for diseases, or when disease has been detected within the field or nearby, a 5- to 7-day schedule is recommended.</p> <p>Apply spray to runoff.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>May be harvested the day of the last application, after spray has dried.</p> <p><b>Not registered for use on these crops in California.</b></p>
<p><b>Hops</b></p>	<p>Downy Mildew (<i>Pseudoperonospora humuli</i>)</p>	<p>6</p>	<p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). Applications of <b>Forum</b> must be alternated with at least 1 application of a fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides).</p> <p>Use <b>Forum</b> as a preventive foliar spray before infection occurs. The application interval for <b>Forum</b> is 10 days.</p>	<p><b>DO NOT</b> make more than 3 applications per season.</p> <p><b>DO NOT</b> exceed 18 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre.</p> <p><b>DO NOT</b> apply within 7 days of harvest.</p> <p><b>DO NOT</b> make aerial applications to hops.</p>

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
Lettuce (head and leaf)	Downy Mildew ( <i>Bremia lactucae</i> )	6	<p><b>Forum® fungicide</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications prior to the onset of disease infection. Continue applications on a 5- to 10-day spray schedule. Use shorter spray intervals when disease pressure is higher.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>Plants may be harvested on the day of the last application after sprays have dried.</p>
Potato	Late Blight ( <i>Phytophthora infestans</i> )	4 to 6	<p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Applications should begin prior to the onset of disease infection based on the recommendation of the local late blight advisory system. Apply on 5- to 10-day application intervals. Disease pressure and environmental conditions should determine application rates and spray intervals. Use higher rates and shorter spray intervals when disease pressure is higher. Consult local late blight advisory system recommendations to determine the predicted levels of disease pressure and the associated application rates and intervals.</p> <p>Apply spray to obtain thorough and complete plant coverage. <b>Forum may be applied after vine kill.</b></p>	<p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p><b>DO NOT</b> apply within 4 days of harvest in all states.</p>

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
Potato	<p><b>Suppression only</b></p> <p>Tuber Blight (<i>Phytophthora infestans</i>)</p>	6	<p>When used according to label recommendations for Late Blight control, <b>Forum® fungicide</b> can also reduce tuber blight.</p> <p>To maximize activity against tuber blight, begin fungicide applications before disease onset occurs and in accordance with local late blight advisory system recommendations. Maintain regular application schedules and obtain thorough plant coverage.</p> <p><b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p><b>Forum may be applied after vine kill.</b></p>	<p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p><b>DO NOT</b> apply within 4 days of harvest in all states.</p>
Taro	<p><b>Suppression only</b></p> <p>Phytophthora Rot and Leaf Blight (<i>Phytophthora</i> spp.)</p>	6	<p><b>Forum</b> must be applied as a tank mix with another fungicide with a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when conditions favor disease development. Continue applications on a 7-day spray schedule as needed until weather conditions favoring infection and sporulation decrease.</p>	<p><b>DO NOT</b> make more than 5 applications per season.</p> <p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p><b>DO NOT</b> apply within 7 or 30 days of harvest for the greens and corms, respectively.</p> <p><b>Not registered for use on these crops in California.</b></p>

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
<b>Tobacco</b>	Blue Mold ( <i>Peronospora tabacina</i> )	2 to 8 ground 8 air	See specific use directions in the section titled <b>DIRECTIONS FOR USE IN FIELD GROWN TOBACCO.</b>  <b>Forum® fungicide</b> must be applied as a tank mix with another fungicide that has a different mode of action (non- <b>Group 15</b> fungicides).	<b>DO NOT</b> exceed 30 oz per acre per growing season.  <b>DO NOT</b> exceed 8 oz per acre per application.  Tobacco may be harvested the day of the last application, after spray has dried.
<b>Tomato - Nonstaked</b>	Late Blight ( <i>Phytophthora infestans</i> )	6	<b>Forum</b> must be applied as a tank mix with another fungicide that has a different mode of action (non- <b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non- <b>Group 15</b> fungicides) for at least 1 application.  Begin applications when plants are 4 to 6 inches high and prior to the onset of disease infection. Apply on a 5- to 10-day spray schedule. Prior to the onset of conditions favoring infection, apply every 7 to 10 days. When environmental conditions have been conducive for diseases, or when disease has been detected within the field or nearby, a 5- to 7-day schedule is recommended.  Apply spray to obtain thorough and complete plant coverage.	<b>DO NOT</b> exceed 30 oz per acre per growing season.  <b>DO NOT</b> use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.  <b>DO NOT</b> apply within 4 days of harvest in all states.

**DIRECTIONS FOR APPLICATION** (continued)

Crop	Target Disease	Use Rate (ozs Product per Acre per Application)	General Recommendations	Restrictions
Tomato - Staked	Late Blight ( <i>Phytophthora infestans</i> )	6	<p><b>Forum® fungicide</b> must be applied as a tank mix with another fungicide that has a different mode of action (non-<b>Group 15</b> fungicides). <b>DO NOT</b> make more than 2 sequential applications of <b>Forum</b> before alternating to another fungicide with a mode of action different from <b>Forum</b> (non-<b>Group 15</b> fungicides) for at least 1 application.</p> <p>Begin applications when plants are 4 to 6 inches high and prior to the onset of disease infection. Apply on a 5- to 10-day spray schedule. Prior to the onset of conditions favoring infection, apply every 7 to 10 days. When environmental conditions have been conducive for diseases, or when disease has been detected within the field or nearby, a 5- to 7-day schedule is recommended.</p> <p>For ground application use a minimum of 20 gallons of spray volume and increase the spray volume as the plants grow during the season. Spray volume should be proportional to the amount of plant tissue to be covered such that 100 gallons of spray per acre is used on mature plants. For aerial applications, follow the directions for nonstaked tomatoes above.</p> <p>Apply spray to obtain thorough and complete plant coverage.</p>	<p><b>DO NOT</b> exceed 30 oz per acre per growing season.</p> <p><b>DO NOT</b> use less than 20 gallons of water per acre for ground applications.</p> <p><b>DO NOT</b> apply within 4 days of harvest in all states.</p>



## Application Timing, Rates and Spray Volumes To Control Blue Mold in Tobacco

Weeks of Growth After Transplant	Rate of <b>Forum</b> ® fungicide (oz of Product)	Spray Volume for Tractor-Driven Sprayer (gallons/acre)	Spray Volume for Backpack Sprayer (gallons/acre)
Recently transplanted to 3 weeks after transplanting	2	20	10
3 to 4 weeks after transplanting (Knee High)	3	40	20
4 to 5 weeks after transplanting (Waist High)	4	60	30
6 to 7 weeks after transplanting (Chest High)	6	80	40
7 weeks after transplanting and beyond (Shoulder Height Up to Topping)	7	100	50

### AERIAL SPRAY APPLICATIONS TO TOBACCO

Aerial applications can be used by growers who have limitations with ground applications, or when weather conditions are unfavorable for timely applications by ground. Aerial sprayers should be properly calibrated before application.

Determine the area to be sprayed and the output rate to determine the quantities of **Forum** and water needed for accurate application. To obtain thorough coverage of the foliage, **use a minimum of 15 gallons per acre**, with nozzle positioning and orientation that favors plant coverage while minimizing drift.

For aerial applications, use 8 oz of **Forum** per acre for applications at all growth stages. **DO NOT** use rates lower than 8 oz of **Forum** per acre for aerial application.

### APPLICATION TIMING AND FREQUENCY IN TOBACCO

Begin applications when the **Blue Mold Advisory states that conditions favor development of blue mold**, and before the onset of disease infection. Continue applications on a 5- to 7-day spray schedule until weather conditions favoring infection and sporulation decrease.

### TOBACCO USE RESTRICTIONS

**DO NOT** exceed 8 oz per acre per application. **DO NOT** exceed 30 oz per acre of **Forum** per season for all types of applications. **Forum** preharvest interval is zero days. Refer to tank mix partner labeling for preharvest interval restrictions.

The use of **Forum** in all tobacco transplant production systems (including greenhouses, float-beds, and traditional ground beds) prior to transplanting is **STRICTLY PROHIBITED**.

**To reduce the possibility of developing tobacco blue mold resistance to both Forum and to mefenoxam products, the tank mixing of Forum with mefenoxam products is STRICTLY PROHIBITED. DO NOT use Forum in transplant water.**

Blue mold fungal strains have developed resistance to some crop protection products after repeated use. Since the development of resistance cannot be predicted, **Forum** should always be used in a blue mold resistance management program. Tank mixing with non-**Group 15** fungicides and thorough spray coverage are necessary to minimize the development of blue mold strains with resistance to **Forum**.

### ROTATIONAL CROP GUIDELINES

**After making the last Forum application**, rotational crops may be planted at the following intervals:

- Anytime**

Brassica Leafy Vegetables	Lettuce (head and leaf)
Bulb Vegetables	Potatoes
Cucurbit Vegetables	Taro
Fruiting Vegetables	Tobacco
Hops	Tomatoes
- One month**

Barley	Root/tuber vegetables (such as carrot, radish, and sugar beet)
Oats	Wheat
Leafy vegetables (such as spinach and celery)	
- Seven months**

Alfalfa	Peas
Beans	Rice
Clover	Sorghum
Corn	Soybeans
- Twelve months**

All other crops

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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 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 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.

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