

264-777

12/20/2005

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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. Melvin K. Tolliver  
Bayer CropScience LP  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

DEC 20 2005

Dear Mr. Tolliver:

Subject: Flint Fungicide  
EPA Registration No. 264-777  
Your Application Dated September 23, 2005

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (H7505C)

Enclosure

GROUP	11	FUNGICIDE
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# Flint<sup>®</sup> Fungicide

For control of certain diseases in almonds, citrus, cucurbit vegetables, fruiting vegetables, grapes, hops, leafy petiole vegetables, pecans, pistachios, pome fruits, potatoes, rice, root vegetables (except radishes), stone fruits, sugar beets, tree nuts and wheat.

**Active Ingredient:**

Trifloxystrobin ..... 50.0%

**Other Ingredients:** ..... 50.0%  
 ..... 100.0%

EPA Reg. No. 264-777

EPA Est.

**STOP - Read the label before use**  
**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

**FIRST AID**

<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye 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 eye.</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>
<p><b>In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</b></p>	
<p><b>Note to Physician:</b> If ingested, induce emesis or lavage stomach. Treat symptomatically.</p>	

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment**

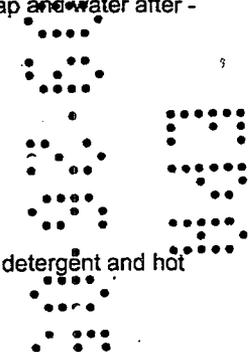
**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

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

**Engineering Control Statements**

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 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

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

#### Ground Water Advisory

Several trifloxystrobin degradates have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

### 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.

### 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.

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

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

- 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 a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Do not apply by aerial application in New York State.

**GENERAL INFORMATION**

Flint® is a broad spectrum fungicide for the control of certain diseases in almonds, citrus, cucurbit vegetables, fruiting vegetables, grapes, hops, leafy petiole vegetables, pecans, pistachios, pome fruits, potatoes, rice, root vegetables (except radishes), stone fruit, sugar beets, tree nuts and wheat. Flint® works by interfering with respiration in plant pathogenic fungi. Flint® is a potent inhibitor of spore germination and mycelial growth.

UNDER CERTAIN CONDITIONS CONDUCIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THIS LABEL MAY BE NEEDED. UNDER THESE CONDITIONS, USE ANOTHER FUNGICIDE REGISTERED FOR THE CROP/DISEASE APPEARING ON THIS LABEL.

DO NOT APPLY FLINT® TO CONCORD GRAPES OR CROP INJURY MAY OCCUR.

**GREENHOUSE APPLICATIONS:** DO NOT APPLY THIS PRODUCT IN GREENHOUSES.

**Resistance Management**

Flint belongs to the QoI (Group 11) target site of action group and exhibits no known cross-resistance to other chemical classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinopyrimidines, or phenylamides. Trifloxystrobin (the active ingredient in Flint) exhibits cross-resistance to other Group 11 fungicides such as azoxystrobin and kresoxim-methyl. When products with the same mode of action are used repeatedly, fungal pathogens can develop resistance to those products. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotation and/or tank mixing with products having different modes of action, or limiting the total number of applications per season.

The North American Fungicide Resistance Action Committee - QoI Working Group (NA-FRAC) recommends: 1) QoI fungicides be used in a preventative manner. 2) When employing tank mixtures for resistance management, use fungicides from different target site Groups that are registered or permitted for the same use, are effective against the pathogen of concern, and are used at not less than the minimum labeled rates of each fungicide in the tank mix. 3) For resistance management purposes, seed treatment or in-furrow applications utilizing Group 11 fungicides are not counted as foliar applications to determine the maximum number of sequential sprays or the total number of sprays per season.

Follow the specific crop recommendations that limit the total number of sprays on a crop and the required alternations with fungicides from other resistance management groups as directed on this label. In situations requiring multiple fungicide sprays, develop season long spray programs for Flint and other Group 11 fungicides. In a program using a Group 11 fungicide as a solo product, the number of applications should be no more than 1/3 of the total number of fungicide applications per season. In programs in which tank mixes or pre-mixes of a Group 11 fungicide together with a fungicide of another Group are utilized, the number of Group 11 fungicide applications should be no more than 1/2 of the total number of fungicide applications per season. In programs in which applications of Group 11 fungicides are made with both solo products and mixtures, the number of Group 11 fungicide applications should be no more than 1/2 of the total number of fungicide applications per season. Bayer CropScience encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

**IPM:** Applications of fungicides 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 manufacturer representative for additional IPM strategies established for your area. Flint may be used in Agricultural Extension advisory (disease forecasting or risk assessment) programs that recommend application timings based on environmental factors favorable for disease development.

**Product performance:** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen by recording factors that may influence fungicide performance and/or disease development. If a fungicide appears to be less effective against a pathogen that it previously controlled or suppressed, contact a manufacturer representative, local extension specialist, or certified crop advisor for further investigation.

**Spray Equipment**

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control. For ground application equipment, a minimum of 50 gals./A is recommended for tree crops and 10 gals./A for other crops. For aerial application equipment, a minimum of 10 gals./A is recommended for tree crops and 5 gals./A for other crops.

**Air Blast Sprayers**

Air assisted or air blast sprayers move spray droplets into the crop canopy using a forced air system. The fan should be set up to deliver only enough air volume to penetrate the canopy and provide good coverage. Adjust deflectors or other aiming devices to direct spray only to the target area.

Equip sprayers with nozzles that provide accurate and uniform application. Check whirl plates and nozzle discs for wear and replace as necessary. Calibrate the sprayer before use.

Use a pump with a capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep the mixture in suspension. Use jet agitators, a liquid sparge tube, or mechanical paddles for agitation.

It is suggested that screens be used to prevent nozzles from clogging. Screens placed after the tank and before the nozzles should be 50-mesh or coarser. Check nozzle manufacturer's recommendations.

## Broadcast Ground Sprayers

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate the sprayer before use.

Use a pump with the capacity to: (1) maintain a minimum of 35 psi at nozzles, and (2) provide sufficient agitation in the tank to keep the mixture in suspension – this requires recirculation of 10% of the tank volume per minute. Use jet agitators or a liquid sparge tube for vigorous agitation.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh screens at the nozzles. Check nozzle manufacturer's recommendations.

For information on spray equipment and calibration, consult sprayer manufacturer's and/or state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.

## Mixing Procedures

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. **Vigorous agitation is necessary for proper dispersal of the product.** Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

**Flint® Alone:** Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the Flint® to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Flint® has completely and uniformly dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Flint® + Tank Mix Partners:** Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general, tank mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as Flint®, liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to become fully and uniformly dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

**Note:** When using Flint® in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Flint®. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using Flint® in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product must not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Flint® is compatible with most insecticide, fungicide, and foliar nutrient products. However, the physical compatibility of Flint® with tank mix partners should be tested before use. To determine the physical compatibility of Flint® with other products, use a jar test, as described below.

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

**The crop safety of all potential tank mixes including additives and other pesticides on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed. To test for crop safety, apply Flint® to the target crop in a small area and in accordance with label instructions for the target crop.**

**Aerial Application:** Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply directly to humans or animals.

**Chemigation:** Do not apply this product through any type of irrigation system.

## Recommendations to Avoid Spray Drift

Do not make applications when conditions favor drift beyond the target application area. When drift may be a problem, take measures to reduce drift, including:

1. Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 15 mph or greater. If nontarget crops are located downwind, use caution when spraying if wind is present. Do not spray if winds are gusty.
2. Use caution when conditions are favorable for drift (high temperatures, drought, low relative humidity).
3. Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.

## USE DIRECTIONS FOR SPECIFIC CROPS

Flint® provides control or suppression of several important diseases of almonds, citrus, cucurbit vegetables, fruiting vegetables, grapes, hops, leafy petiole vegetables, pecans, pistachios, pome fruits, potatoes, rice, root vegetables (except radishes), stone fruits, sugar beets, tree nuts and wheat. When reference is made to disease suppression, suppression can mean either erratic control from good to fair, or consistent control at a level below that obtained with the best-commercial disease control products.

ALMONDS			
Disease Control	Rate Oz/Acre	Application Timing	Notes
Anthracnose ( <i>Colletotrichum acutatum</i> ) Shot hole ( <i>Wilsonomyces carpophilus</i> ) Scab ( <i>Cladosporium carpophilum</i> ) Alternaria ( <i>Alternaria alternata</i> )	3.0-4.0	Begin applications preventively and continue as needed on a 7- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Disease Suppression	Rate Oz/Acre	Application Timing	Notes
Blossom Blight ( <i>Monilinia</i> spp.)	2.0-3.0	Begin applications at pink bud stage (about 5% bloom). If conditions are favorable for disease development, apply again at full bloom and at petal fall, or on a 14- to 21-day spray schedule.	Use the higher rates and shorter intervals when disease pressure is severe.
<p><b>Restrictions:</b> Do not apply more than 16 oz of Flint® per acre per season. Do not apply Flint® within 60 days of harvest or after hull-split. Do not apply more than 4 applications of Flint® per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.</p>			

CITRUS			
Disease Control	Rate oz/Acre	Application Timing	Notes
Alternaria ( <i>Alternaria alternata</i> )	2.0-4.0	Begin applications preventively. Apply at first flush, petal fall, 3 weeks after petal fall, and 6 weeks after petal fall.	Use the higher rates when disease pressure is severe. Follow Flint® applications with regular copper applications starting three weeks after the last Flint® application or at intervals according to a weather-based predictive system.
Greasy Spot ( <i>Mycosphaerella citri</i> )	2.0-4.0	Light to moderate disease pressure: Make a single application in June or July. Heavy disease pressure: Make two applications in June or July followed by a second application in August.	Use the higher rates when disease pressure is severe. If both greasy spot and melanose control are desired, apply Flint® two weeks after petal fall followed by a second application in early May, and again at the first and second greasy spot applications. Follow Flint® applications with copper or other non-strobilurin fungicide applications.
Melanose ( <i>Diaporthe citri</i> )	2.0-4.0	Heavy disease pressure: Apply at two weeks after petal fall, early May, and June followed by a copper spray program. If conditions are not favorable for melanose at fruit set, the first application of Flint® can be made in early May followed by a copper program.	
Scab ( <i>Elsinoe fawcettii</i> )	2.0-4.0	Begin applications preventively. Apply at early flush, petal fall, and 3-4 weeks after petal fall.	Use the higher rates and shorter intervals when disease pressure is severe.
<p><b>Restrictions:</b> Do not apply more than 16 oz of Flint® per acre per season. Do not apply Flint® within 30 days of harvest. Do not apply more than 4 applications of Flint® per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.</p>			

**CUCURBIT VEGETABLES:** Chayote, Chinese Waxgourd, Citron Melon, Cucumber, Gherkin, Edible Gourds, Momordica spp., Muskmelon, Pumpkin, Summer Squash, Winter Squash, Watermelon.

Disease Control	Rate Oz/Acre	Application Timing	Notes
Powdery Mildew ( <i>Sphaerotheca fuliginea</i> ) ( <i>Erysiphe cichoracearum</i> ) Plectosporium Blight ( <i>Plectosporium tabacinum</i> )	1.5-2.0.	Begin applications preventively when conditions are favorable for disease and continue as needed on a 7- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Disease Suppression	Rate Oz/Acre	Application Timing	Notes
Downy Mildew ( <i>Pseudoperonospora cubensis</i> )	4.0	Begin applications preventively when conditions are favorable for disease. Alternate applications of Flint® with Ridomil Gold® Bravo® at the labeled rate and continue as needed on a 7- to 14-day interval.	Use the shorter intervals when disease pressure is severe.

The crop safety of all potential tank mixes including additives and other pesticides on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed. To test for crop safety, apply Flint® to the target crop in a small area and in accordance with label instructions for the target crop.

**Restrictions:** Do not apply more than 16 oz of Flint® per acre per season. Flint® may be applied up to the day of harvest (0-day preharvest interval). Do not apply more than 4 applications of Flint® per acre per season. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group.

FRUITING VEGETABLES: Eggplant, Groundcherry, Pepino, Peppers, Tomatillo, Tomatoes.			
Disease Control	Rate Oz/Acre	Application Timing	Notes
Peppers Only - Powdery Mildew ( <i>Oidiopsis taurica</i> )	1.5-2.0	Begin applications preventively and continue as needed on a 7- to 10-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Early Blight ( <i>Alternaria solani</i> )	2.0-3.0	Begin applications preventively and continue as needed on a 7- to 10-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Gray Leaf Spot ( <i>Stemphyllium spp.</i> )	4.0	Begin applications preventively and continue as needed on a 7- to 10-day interval.	Use the shorter interval when disease pressure is severe.
Late Blight ( <i>Phytophthora infestans</i> )	Flint® WG tank mixture: 4.0	Begin applications preventively. Apply Flint® WG in a tank mixture with 75% of the labeled rate of protectant fungicide registered for control of late blight making applications on a 7- to 10-day interval. Alternate Flint® (every other application) with a protectant fungicide registered for use against late blight on a 7- to 10-day interval.	Use the shorter interval when disease pressure is severe.
Disease Suppression	Rate Oz/Acre	Application Timing	Notes
Anthrachnose ( <i>Colletotrichum spp.</i> ) Septoria leaf spot ( <i>Septoria lycopersici</i> ) Tomato Only - Powdery Mildew ( <i>Oidiopsis taurica</i> )	3.0-4.0	Begin applications preventively and continue as needed on a 7- to 10-day interval.	Use the higher rates and shorter interval when disease pressure is severe.
<p>The crop safety of all potential tank mixes including additives and other pesticides on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed. To test for crop safety, apply Flint® to the target crop in a small area and in accordance with label instructions for the target crop.</p> <p><b>Restrictions:</b> Do not apply more than 16 oz of Flint® per acre per season. Do not apply Flint® within 3 days of harvest. Do not apply more than 5 applications of Flint® per acre per season. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group. (Flint must be tank mixed and alternated with a protectant fungicide for control of late blight.)</p>			

**GRAPES: Do not apply Flint® to Concord grapes or crop injury may occur.**

Disease Control	Rate Oz/Acre	Application Timing	Notes
Powdery Mildew ( <i>Uncinula necator</i> )	1.5	Begin applications preventively and continue as needed on a 14-day interval.	Use the shorter intervals and higher rates when disease pressure is severe. When used at 2 oz/A, Flint® will provide suppression of <i>Botrytis</i> bunch rot ( <i>Botrytis</i> spp).
	2.0	Begin applications preventively and continue as needed on a 14- to 21-day interval.	
Botrytis Bunch Rot ( <i>Botrytis cinerea</i> )	3.0	Refer to timings listed above for grape powdery mildew. Research data shows a trend toward better control if fungicides are applied at bloom, preclose, and veraison. Continue on a 14- to 21 day schedule.	Use the shorter intervals when disease pressure is severe.
Phomopsis Cane and Leaf Spot ( <i>Phomopsis viticola</i> )	3.0	Applications should begin at bud break and continue on a 14- to 21 day schedule and before 0.5 inch shoot length and again when shoots are 5 to 6 inches in length.	
Black Rot ( <i>Guignardia bidwellii</i> )	2.0	Begin applications when shoots are 1-3 inches in length and continue as needed on a 10- to 14-day interval.	
Disease Suppression	Rate Oz/Acre	Application Timing	Notes
Botrytis Bunch Rot ( <i>Botrytis cinerea</i> )	2.0	Refer to timings listed above for grape powdery mildew.	Use the shorter intervals when disease pressure is severe.
Phomopsis Cane and Leaf Spot ( <i>Phomopsis viticola</i> )			
Downy Mildew ( <i>Plasmopara viticola</i> )	4.0	Begin applications preventively when conditions are favorable for disease and continue on a 7- to 10-day interval as needed.	

**Restrictions:** Do not apply more than 24 oz of Flint® per acre per season. Do not apply Flint® within 14 days of harvest. Do not apply more than 6 applications of Flint® per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.

HOPS			
Disease Control	Rate Oz/Gals Water/Acre	Application Timing	Notes
Powdery Mildew ( <i>Sphaerotheca macularis</i> )	In a thorough coverage spray apply:  1 oz with 15-30 gals./acre  2 oz with 31-60 gals./acre  3 oz with 61-90 gals./acre  4 oz with 91-200 gals./acre  These concentrations must be carefully followed for effective disease control.	For best results, apply preventively.  In a fungicide program where Flint® is alternated with a sterol inhibitor fungicide, apply on a 10- to 14-day interval. Under conditions of moderate to high disease pressure, use the shorter interval.  Apply the sterol inhibitor fungicide on the interval specified on the product label.	Alternate Flint® applications with a sterol inhibitor fungicide registered for use against hop powdery mildew or apply Flint® in a blocking program with no more than three sequential applications of Flint® before alternating to a sterol inhibitor fungicide registered for use against hop powdery mildew.  Applications must be made with ground equipment that has been carefully calibrated to deliver a known rate of water per acre. A thorough coverage spray refers to an application made just to the point of runoff.

**Disease Suppression:** When used for hop powdery mildew control, Flint® will provide suppression of downy mildew (*Pseudoperonospora humuli*).

**Restrictions:** Do not apply Flint® using aerial application. Do not apply Flint® using low volume applicators. Do not apply Flint® through any type of irrigation system. Do not use on hops in California.

The crop safety of potential tank mixes including additives and other pesticides on hops has not been tested. Before applying any tank mixture, the safety to hops should be confirmed.

Do not apply more than 4 applications of Flint® per crop per year. Do not apply Flint® within 14 days of harvest. Do not replant treated areas within 30 days of the last application. Do not graze cover crops within the area treated with Flint®. Do not harvest cover crops within the area treated with Flint® for silage and hay. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group.

LEAFY PETIOLE VEGETABLES: Cardoon, Celery, Chinese celery, Celtuce, Florence fennel, Rhubarb, Swiss chard.			
Disease Control	Rate Oz/Acre	Application Timing	Notes
Early Blight ( <i>Cercospora apii</i> )  Late blight ( <i>Septoria apiicola</i> )  Rust ( <i>Puccinia</i> spp., <i>Uromyces</i> spp.)	2.0-3.0	Begin applications preventively and continue as needed on a 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe. A minimum spray volume of 30 gal/A is recommended.

**Restrictions:** Do not apply more than 12 oz of Flint® per acre per year. Do not apply Flint® within 7 days of harvest. Do not apply more than 4 applications of Flint® or other strobilurin fungicide per season. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group.

PECANS			
Disease Control	Rate oz/Acre	Application Timing	Notes
Scab ( <i>Cladosporium caryigenum</i> ) Anthracnose ( <i>Glomerella cingulata</i> )	2.0-4.0	Begin applications preventively. Begin at bud break and continue on a 14-day interval through pollination followed by cover sprays on 14- to 21-day intervals.	Use the shorter intervals and higher rates when disease pressure is severe.
<b>Restrictions:</b> Do not apply more than 24 oz of Flint® per acre per season. Do not apply Flint® after shuck split or within 30 days of harvest. Do not apply more than 6 applications of Flint® per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.			

PISTACHIOS			
Disease Control	Rate oz/Acre	Application Timing	Notes
Botryosphaeria Panicle and Shoot Blight ( <i>Botryosphaeria dothidea</i> ) Septoria Leaf Spot ( <i>Septoria pistaciarum</i> )	2.0-3.0	Begin applications preventatively and continue as needed on a 14- to 21-day interval.	Use the higher rate and shorter interval when disease pressure is severe.
Alternaria Late Blight ( <i>Alternaria alternata</i> )	3.0-4.0		
<b>Restrictions:</b> Do not apply more than 12 oz of Flint® per acre per season. Do not apply Flint® within 60 days of harvest. Do not apply more than 4 applications of Flint® or other strobilurin fungicides per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.			

<b>POME FRUITS:</b> Apples, Pears, Crabapples, Loquat, Mayhaw, Quince			
<b>Disease Control</b>	<b>Rate Oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Scab ( <i>Venturia</i> spp.)	Preventative 2.0	Begin applications at green tip and continue as needed on a 7- to 10-day interval.	Flint® will provide up to 72 hours of post-infection control under moderate to heavy disease pressure and up to 96 hours of post-infection control of apple scab under light disease pressure. Applications should be made preventatively or as soon as possible following a scab infection period and followed up within 7 to 10 days with another application of Flint® or another fungicide labeled for the control of scab. A reliable infection forecasting system must be used.
	Post-infection 2.5		
Cedar Apple Rust ( <i>Gymnosporangium juniperi-virginianae</i> )	2.0-2.5	Begin applications preventively. Continue applications as needed on a 7- to 10-day interval.	Use the higher rates and shorter intervals when disease pressure is severe. <b>Alternate (every other application) with a sterol inhibitor fungicide.</b>
Powdery Mildew ( <i>Podosphaera leucotricha</i> )	2.0-2.5	Begin applications preventively. Continue applications as needed on a 10- to 14-day interval.	
Sooty Blotch ( <i>Gloeodes pomigena</i> ) Fly Speck ( <i>Schizothyrium pomi</i> )	2.0-2.5	Begin applications preventively. Continue applications as needed on a 10- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
<b>Disease Suppression</b>	<b>Rate Oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Bitter Rot ( <i>Glomerella cingulata</i> )	3.0	Begin applications preventively using Flint® solo at the specified rate or use a tank mix of Flint® with 1.2 lbs. Active ingredient of Captan per acre. Continue applications as needed on a 10- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
White Rot ( <i>Botryosphaeria dothidea</i> )	Tank mix with Captan: 1.5		
<b>Restrictions:</b> Do not apply more than 11 oz of Flint® per acre per season. Do not apply Flint® within 14 days of harvest. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide. Do not apply more than 4 applications of Flint or any other Group 11 fungicide per season. Do not apply Flint® where spray drift may reach Concord grapes or crop injury may occur. Spray equipment should be rinsed after applying Flint® before application of other products to Concord grapes or crop injury may occur.			

<b>POTATOES</b>			
<b>Disease Control</b>	<b>Rate Oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Early blight ( <i>Alternaria solani</i> )	3.0-4.0	Begin applications preventively and continue as needed on a 7- to 10-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Late blight ( <i>Phytophthora infestans</i> )	Flint® WG Tank Mixture: 4.0	Begin applications preventively. Apply Flint® WG in a tank mixture with 75% of the labeled rate of protectant fungicide registered for potatoes for control of late blight making applications on a 7- to 10-day interval.  Alternate Flint® (every other application) with a protectant fungicide for use against late blight on a 7- to 10-day interval.	Use the shorter interval when disease pressure is severe.
<b>Restrictions:</b> Do not apply more than 24 oz of Flint® per acre per season. Do not apply Flint® within 7 days of harvest. Do not apply more than 6 applications of Flint® per acre per season. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group. (Flint must be tank mixed and alternated with a protectant fungicide for control of late blight.)			

<b>RICE</b>			
<b>Disease Control</b>	<b>Rate oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Rice Blast ( <i>Pyricularia oryzae</i> )	3.0-4.9	Begin applications preventively. Apply at boot followed by a second application 14-21 days later.	Use the higher rates and shorter intervals when disease pressure is severe.
Sheath Blight ( <i>Rhizoctonia solani</i> )  Sheath Spot ( <i>R. oryzae</i> )	3.0-4.9	Begin applications preventively. Apply at 1st internode elongation and repeat at swollen boot (14 days later) but before boot splits and head emerges.	Use the higher rates when disease pressure is severe
<b>Restrictions:</b> Do not apply more than 9.9 oz of Flint® per acre per crop. Do not apply Flint® within 35 days of harvest. Do not apply more than 2 applications of Flint® per acre per crop. Do not apply in rice fields where commercial farming of crayfish will be practiced. Do not drain water from treated rice fields into ponds used for commercial catfish farming, to irrigate other crops, or use treated water for livestock.			

<b>ROOT VEGETABLES: Beet (garden), Burdock (edible), Carrot, Celeriac, Chervil (turnip-rooted), Chicory, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip, Rutabaga, Salsify, Salsify (black), Salsify (Spanish), Skirret, Turnip.</b>			
<b>Disease Control</b>	<b>Rate Oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Leaf blight ( <i>Alternaria dauci</i> )  Leaf spot ( <i>Cercospora carotae</i> )  Powdery mildew ( <i>Erysiphe spp.</i> )  Rust ( <i>Puccinia spp., Uromyces spp.</i> )	2.0-3.0	Begin applications preventively and continue as needed on a 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe. Use sufficient water to obtain thorough coverage.
<b>Restrictions:</b> Do not apply more than 12 oz of Flint® per acre per year. Do not apply Flint® within 7 days of harvest. Do not apply more than 4 applications of Flint® or other strobilurin fungicide per season. To reduce the potential for resistance, alternate every Group 11 fungicide application with at least one application of a fungicide from a different Group.			

<b>STONE FRUITS: Apricots, Cherries, Nectarines, Peaches, Plums, Plumcots, Prunes (fresh)</b>			
<b>Disease Control</b>	<b>Rate oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Cherry Leaf Spot ( <i>Blumeriella jaapii</i> ) Powdery Mildew ( <i>Podosphaera</i> spp. and <i>Sphaerotheca pannosa</i> ) Scab ( <i>Cladosporium carpophilum</i> )	2.0-4.0	Begin applications preventively. Apply at petal fall and continue on a 7- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Shot hole ( <i>Wilsonomyces carpophilus</i> )	3.0-4.0	Begin applications preventively and continue on a 7- to 14-day interval.	
<b>Disease Suppression</b>	<b>Rate Oz/Acre</b>	<b>Application Timing</b>	<b>Notes</b>
Blossom Blight ( <i>Monilinia</i> spp.)	2.0-3.0	Begin applications at bud stage. If conditions are favorable for disease development, apply again at full bloom and at petal fall, or on a 14- to 21-day spray schedule.	Use the higher rates and shorter intervals when disease pressure is severe.
<b>Restrictions:</b> Do not apply more than 16 oz of Flint® per acre per season. Do not apply Flint® within 1 day of harvest. Do not apply more than 4 applications of Flint® per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.			

<b>SUGAR BEETS</b>			
<b>Disease Control</b>	<b>Rate</b>	<b>Application Timing</b>	<b>Notes</b>
Cercospora leaf spot ( <i>Cercospora beticola</i> ) Powdery mildew ( <i>Erysiphe polygoni</i> )	3.0-3.5 oz product/A	Begin applications preventively and continue as needed on a 10- to 14-day interval.	Use the higher rates and shorter intervals when disease pressure is severe.
Rhizoctonia Crown Rot ( <i>Rhizoctonia solani</i> )	0.15 oz product/ 1,000 linear ft. of row	Apply at first cultivation. Spray should be directed at the crown of the plant. A second application may be made 2-4 weeks later.	Use the shorter interval when disease pressure is severe.
<b>Restrictions:</b> Do not apply more than 10.5 oz of Flint® per acre per season. Do not apply Flint® within 21 days of harvest. Do not apply more than 3 applications of Flint® per acre per season. To reduce the potential for resistance, one application of a Group 11 fungicide may be made up to the 4 leaf stage of plant growth. An additional Group 11 fungicide application may be made after the 4 <sup>th</sup> leaf stage, but it must be alternated with at least one application of a fungicide from a different Group before any additional applications of a Group 11 fungicide are allowed.			

**TREE NUTS:** Almonds,\* Beechnuts, Brazil Nuts, Butternuts, Cashew, Chestnuts, Chinquapins, Filberts, Hickory Nuts, Macadamia Nuts, Pecans,\* Pistachios,\* Walnuts (\* See Specific Use Instructions)

Disease Control	Rate Oz/Acre	Application Timing	Notes
Botryosphaeria Panicle and Shoot Blight ( <i>Botryosphaeria dothidea</i> )	2.0-3.0	Begin applications preventively and continue as needed on a 14- to 21-day interval	Use the higher rates and shorter intervals when disease pressure is severe.
Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	2.0-4.0	Begin applications preventively and continue as needed on a 7- to 14-day interval.	
Alternaria Late Blight ( <i>Alternaria alternata</i> ) Anthracnose ( <i>Colletotrichum acutatum</i> , <i>Glomerella cingulata</i> ) Scab ( <i>Cladosporium carpophilum</i> , <i>Cladosporium caryigenum</i> ) Shothole ( <i>Wilsonomyces carpophilus</i> )	3.0-4.0	Begin applications preventively and continue as needed on a 7- to 14-day interval.	

**Restrictions:** Do not apply more than 16 oz of Flint® per acre per season. Do not apply Flint® within 60 days of harvest. Do not apply more than 4 applications of Flint per acre per season. To reduce the potential for resistance, limit Group 11 fungicides to two sequential applications and alternate with at least two applications of fungicides from a different Group before making a third application with a Group 11 fungicide.

WHEAT			
Disease Control	Rate Oz/Acre	Application Timing	Notes
Rust ( <i>Puccinia</i> spp.) Powdery mildew ( <i>Erysiphe graminis</i> ) Leaf blight ( <i>Septoria tritici</i> ) Tan spot ( <i>Pyrenophora tritici-repentis</i> )	3.5	Begin applications preventively when conditions are favorable for disease development. A second application may be made if needed.	Sequential applications should be applied at a minimum interval of 14 days.
Glume blotch ( <i>Stagnospora nodorum</i> )	3.5	Make an application at the early heading stage.	Head disease control may be enhanced when preceded by a foliar application prior to heading.
Disease Suppression	Rate Oz/Acre	Application Timing	Notes
Fusarium head scab ( <i>Fusarium</i> spp.)	3.5	Make an application when 50% of the heads have begun flowering.	Head disease control may be enhanced when preceded by a foliar application prior to heading.

**Restrictions:** Do not apply more than 2 applications or a total of 7.0 oz of Flint® per acre per season. Do not apply Flint® within 35 days of harvest.

**Grazing Restrictions:** (a) If 2 applications or a total of 7.0 oz of Flint® per acre per season are applied, do not allow livestock to graze within the treated area and do not harvest the treated crop for forage or hay. (b) If 1 application or a total of 3.5 oz of Flint® per acre per season are applied, do not allow livestock to graze within the treated area within 30 days after application, and do not harvest the treated crop for forage within 30 days after application or for hay within 45 days after application.

**SEED TREATMENT** - Corn (Field Corn, Field Corn Grown For Seed, and Popcorn), Cucurbit Vegetables, Fruiting Vegetables, Peanut, Potatoes (seed-piece), Rice, Sugar Beets, Wheat, Conifer, Ornamental Flowers and Turf.

For the suppression of seedborne disease and early season damping-off caused by *Rhizoctonia solani*.

**SEED LABELING:** To meet U.S. Federal Seed Act requirements, all seed treated with Flint® must be labeled:

**TREATED SEED. DO NOT USE FOR FOOD, FEED OR OIL PURPOSES. Treated with Trifloxystrobin.**

**USE PRECAUTION:** When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored to distinguish it and prevent subsequent inadvertent use as a food for man or feed for animals.

Disease Suppression	Rate Oz/ CWT	Directions For Use
<i>Rhizoctonia solani</i>	0.16-0.32	Apply as a seed treatment using standard slurry or mist-type seed treatment equipment. Uniform application to seed is necessary to ensure seed safety and best disease protection. Seed should be sound and well cured prior to treatment. Product should be diluted with sufficient water to ensure complete seed coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop to be treated with Flint®. The length of control will vary depending on the rate used.

**ROTATIONAL RESTRICTIONS**

Treated areas may be replanted immediately following harvest with any crop listed on this label. For crops not listed on this label, do not plant back within 30 days of last application.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks 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 the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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**NET CONTENTS: 20 Ounces**

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ACCEPTED  
DEC 20 2005  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
this product is for the pest(s) listed  
on the label  
264-777



**Bayer CropScience**

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