

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Kristen B Knox Product Registration Manager MANA Crop Protection 3120 Highwoods Blvd Suite 100 Raleigh NC 27604

AUG 2 3 2012

**Product Name** 

Bumper 41VC

**EPA Reg No** 

66222 241

Subject

Your notification dated July 17 2012 revised label

OPP Decision Number

468382

Dear Ms Knox

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The label submitted with the application has been stamped. Notification, and will be placed in our records

If you have any questions please contact Robert Westin by phone at (703) 305 5721 or via email at westin robert@epa gov

Sincerely

Cynthia Giles Parker

Acting Product Manager (20)

Fungicide Branch

Registration Division (7504P)

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July 17 2012

Document Processing Desk (NOTIF) Registration Division Office of Pesticide Programs U S EPA One Potomac Yard 2777 S Crystal Drive Room S 4900 Arlington VA 22202

RE	Notification to add low	VOC formulation	statement and KlearSky logo
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ABBA Ultra	EPA Reg No 66222 226
Bumper 41 VC	EPA Reg No 66222 241
Fanfare 2 SC	EPA Reg No 66222 236
Galıgan H₂O	EPA Reg No 66222 140
Paradigm	EPA Reg No 66222 223
Vulcan	EPA Reg No 66222 233

To Whom It May Concern

Makhteshim Agan of North America Inc has recently had low VOC formulations approved by the EPA for each of the above referenced products. At this time we are notifying the Agency of our intention to add a low VOC formulation statement and our KlearSky logo to these product labels. These label changes are listed in PR Notice 98 10 (II) (K)(5) Truthful statements about formulation changes and 98 10 (II) (H) Symbols and graphics in conjunction with and in close proximity to explanatory label text

This notification is consistent with the provisions of PR Notice 98 10 and EPA regulation 40 CFR 152 46 and 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 USC Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 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

In support of this submission the following documents are attached for each product

- Application for Pesticide Registration (EPA Form 8570 1)
- One annotated copy of the printed label and
- Two clean copies of the printed label

If you need any further information to process this submission please contact me at phone 919 256 9337 or e mail <a href="mailto:kknox@manainc.com">kknox@manainc.com</a>

17000C

Kristen B Knox

Best regards

**Product Registration Manager** 

# **BUMPER® 41VC**

(Alternate Brand Name Bumper® ES)

# (Optional Marketing Claim )

- (Propiconazole) FUNGICIDE
- Low VOC Formulation



NOTIFICATION AUG 2 3 2012

**ACTIVE INGREDIENT** 

% BY WT

Propiconazole 1 [[2 (2 4 dichlorophenyl) 4 propyl 1 3 dioxolan 2 yl]Methyl] 1H 1 2 4 triazole

40 85% 59 15%

INERT INGREDIENTS TOTAL

100 0%

Bumper 41VC contains 3 6 lbs of active ingredient per gallon

# KEEP OUT OF REACH OF CHILDREN CAUTION

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

# Manufactured for

Makhteshim Agan of North America Inc 3120 Highwoods Blvd Suite 100 Raleigh NC 27604

NET CONTENTS GALS

EPA Reg No 66222 241

F	$\Delta$	Est	No
	-	LOL	INO

	FIRST AID		
<ul> <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>Do not induce vomiting unless told to do so by a poison control center or doctor</li> <li>Do not give anything to an unconscious person</li> </ul>			
IF IN EYES	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes 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>		
IF INHALED	<ul> <li>Move person to fresh air</li> <li>If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible</li> <li>Call a poison control center or doctor for further treatment advice</li> </ul>		
<ul> <li>IF ON SKIN OR CLOTHING</li> <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>			

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prosar at 1 877 250 9291 for emergency medical treatment information NOTE TO PHYSICIAN. There is no specific antidote for this product. Induce emesis or lavage stomach taking care to avoid aspiration of stomach contents into lungs.

Bumper 41VC/Bumper ES EPA Reg No 66222 241 Clean Copy Master Label Update July 17 2012 Page 1 of 30

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Causes moderate eye irritation. Avoid contact with eyes skin or clothing Avoid breating spray mist. 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  $\bf G$  on an EPA chemical resistance category selection chart

# Applicators and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or Viton
- Shoes plus socks

## **USER SAFETY REQUIREMENTS**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROLS STATEMENT**

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

# **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. For terrestrial uses do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Refer to product labeling for use restrictions to protect endangered species.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use pour spill or store near heat or open flame. Do not use with or store near any oxidizing agents

## **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

- Coveralis
- Chemical resistant gloves such as barrier laminate or Viton
- Shoes plus socks

#### **INFORMATION**

Bumper<sup>®</sup> 41VC is a broad spectrum fungicide for the control of specified diseases in labeled crops. Do not use this product in greenhouses or as a tree injection

When an adjuvant is to be used with this product. Makhteshim Agan of North America. Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

# **SPRAY EQUIPMENT**

In general the most effective disease control is achieved when applications are made using sufficient water volume to provide thorough and uniform coverage

To avoid spray drift do not apply when conditions favor drift beyond the target area. Do not allow spray overlap as crop injury may occur

Air assisted or air blast sprayers use a forced air stream to move spray droplets into the canopy. Set up the fan 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. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use

Use a pump with capacity to maintain 35 40 psi at nozzles and provide sufficient agitation in tank to keep mixture in suspension. Use a jet agitator liquid sparger tube, or mechanical paddle for agitation. Do not air sparge

Although Bumper 41VC is an emulsifiable concentrate it is suggested that screens be used to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Do not place a screen in the recirculation line. Use 50 mesh or coarser screens between the pump and boom and where required at the nozzles. Check nozzle manufacturer's recommendations.

For more information on spray equipment and calibration consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules consult the current state agricultural experiment station recommendations.

# **APPLICATION INSTRUCTIONS**

For best results sufficient water volume should be used to provide thorough coverage. In most situations Bumper 41VC is most effective when applied and allowed to dry before a rainfall. 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

**Aerial Application** For those crops other than tree crops where aerial applications are indicated apply in a minimum of 2 gals of water per acre unless specified otherwise in the **APPLICATION INSTRUCTIONS** section of this label. For tree crops use the higher volume on large trees using a minimum of 5 to 10 gals of water per acre unless specified otherwise in the **APPLICATION INSTRUCTIONS** section of this label.

**Ground Application** For tree crops use a minimum of 50 gals of water per acre unless specified otherwise in the **APPLICATION INSTRUCTIONS** section of this label. For all other crops apply Bumper 41VC by ground equipment in a minimum of 10 gals of water per acre unless specified otherwise in the **APPLICATION INSTRUCTIONS** section of this label.

**Chemigation** Apply Bumper 41VC through irrigation equipment only to crops for which chemigation is specified on this label or on approved supplemental labeling provided by Makhteshim Agan of North America. Inc. Apply in 0.1 to 0.25 inches of water. Chemigation with excessive water may negatively impact efficacy of the product

Precaution(s) Do not inject Bumper 41VC at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part Bumper 41VC. Bumper 41VC is corrosive to many seal materials Leather seals are best. EPDM or silicone rubber seals can be used but should be replaced once a year. Do not use Viton. Buna N. Neoprene or PVC seals.

Bumper 41VC alone or in combination with other pesticides which are registered for application through irrigation systems may be applied through irrigation systems

Apply this product only through center pivot solid set hand move or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists equipment manufacturers or other experts.

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

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

# **Irrigation System Operating Instructions**

- 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 backflow
- The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 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
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- 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
- Do not apply when wind speed favors drift beyond the area intended

#### **Center Pivot Irrigation Equipment**

Use only with drive systems which provide uniform water distribution. Do not use end guns when applying Bumper 41VC through center pivot systems because of non uniform application.

- Determine the size of the area to be treated
- Determine the time required to apply 1/8 1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying Bumper 41VC through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80 95% of the manufacturer's rated capacity.
- Using water determine the injection pump output when operated at normal line pressure
- Determine the amount of Bumper 41VC required to treat the area covered by the irrigation system
- Add the required amount of Bumper 41VC and sufficient water to meet the injection time requirements to the solution tank
- Make sure the system is fully charged with water before starting injection of the Bumper 41VC solution. Time
  the injection to last at least as long as it takes to bring the system to full pressure.

- Maintain constant solution tank agitation during the injection period
- Continue to operate the system until the Bumper 41VC solution has cleared the sprinkler head

# Solid Set Hand Move and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30 minute interval When applying Bumper 41VC through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution
- Determine the amount of Bumper 41VC required to treat the area covered by the irrigation system
- Add the required amount of Bumper 41VC into the same quantity of water used to calibrate the injection
- Operate the system at the same pressure and time interval established during the calibration
- Stop injection equipment after treatment is completed. Continue to operate the system until the Bumper 41VC solution has cleared the last sprinkler head

Banded Application For banded applications the treated area is the area covered by the band not total cropland planted The following formula can be used to calculate the amount of Bumper 41VC needed per acre of crop when banded applications are made

Band width in inches Row spacing in inches

x Broadcast rate per acre = Amount needed per acre of field

# MIXING INSTRUCTIONS

Prepare no more spray mixture than is required for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate the spray solution before and during application. Rinse spray tank thoroughly with clean water after each day s use and dispose of pesticide rinsate by application to an already treated area

Bumper 41VC Alone Add 1/2 2/3 of the required amount of water to the spray or mixing tank. With the agitator running add the Bumper 41VC to the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the Bumper 41VC has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed

Bumper 41VC + Tank Mixtures Bumper 41VC is usually compatible with most insecticides fungicides and foliar nutrients however do not mix Bumper 41VC with Syllit® or crop injury may occur

To determine the physical compatibility of Bumper 41VC with other products use a jar test. Using a quart jar add the proportionate amounts of the products to 1 gt of water. Add wettable powder and water dispersible granular products first the 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

Add 1/2 2/3 of the required amount of water to the spray or mixing tank. With the agitator running add the tank mix partner into the tank. Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Bumper 4 VC to the spray tank. Allow the Bumper 41VC to completely disperse. Spray the mixture with the agitator running

If using Bumper 41VC in a tank mixture observe all directions for use crops/sites use rates dilution ratios precautions and limitations which appear on the tank mix product label. Do not exceed any label dosage rates and always follow the most restrictive label precautions and limitations. Do not mix this product with any product whose label 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

# **ROTATIONAL CROPS**

Alfalfa can be planted 75 days after the last Bumper 41VC application if the total application of propiconazole has not exceeded 0 22 lb active ingredient per acre during the previous year. Do not plant any other crop intended for food grazing or any component of animal feed or bedding within 105 days of Bumper 41VC application to the preceding crop unless the second crop appears on this label

#### RESISTANCE MANAGEMENT

Bumper 41VC/Bumper ES EPA Reg No 66222 241 Clean Copy Master Label Update July 17 2012 Page 5 of 30 Bumper 41VC is effective in controlling pests and minimizing the development of resistance when used in rotation with other fungicides in an IPM program. To reduce selection pressure for resistant pests

- Use Bumper 41VC in rotation with classes of fungicides with different modes of action
- Use Bumper 41VC as part of a pest management program that includes cultural and biological control where possible
- Bumper 41VC is in the Group 3 class of fungicides. The mode of action for propiconazole the active
  ingredient in this product is as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts
  membrane synthesis by blocking demethylation. Resistance can develop when products with the same mode
  of action are used repeatedly.
- Consult your State or local agricultural pest control advisor(s) for pest control strategies established for your area

# **APPLICATION INSTRUCTIONS**

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
ALMONDS	Brown Rot Blossom Blight (Monilinia laxa M fructicola)	4 8 fl oz	Apply Bumper 41VC in at least 15 gallons of spray per acre at 5 10% bloom and 50 100% bloom using ground or air equipment in sufficient volume to provide thorough coverage Under severe disease conditions use the highest rate Minimum retreatment interval is 7 days
	Anthracnose (Collectotrichum acutatum)	8 fl oz	Apply Bumper 41VC in at least 15 gallons of spray per acre beginning at bud break using ground or air equipment in sufficient volume to provide thorough coverage on a 7 14 day interval
<ul> <li>Do not apply more than 32 fl oz per acre per seas</li> <li>Do not apply more than 0 90 lb a r propiconazole</li> <li>Do not apply within 60 days of harvest</li> <li>Do not graze livestock in treated areas or cut treated</li> </ul>		iconazole per acre per season	

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
BANANAS AND PLANTAINS			Make applications before disease symptoms appear at the onset of the rainy season Apply specified rate in 10 to 20 gallons of water per acre using ground or air application equipment Make no more than 2 consecutive applications on a 21 to 25 day schedule before rotating to another labeled product with a different mode of action for at least 2 sprays A maximum of 8 applications can be made. If possible have at least 2 consecutive months triazole free during the period of lower disease pressure.  Mixing Procedures  Oil in Water Emulsion. Add the crop oil to the spray tank. Add the emulsifier (0.6 fl. oz per gal of oil) and Bumper 41VC to the spray tank and mix thoroughly for 5 minutes. Add water to the spray tank and mix thoroughly for 15 minutes.  Oil Alone. Add crop oil to the spray tank. Add the Bumper 41VC to the spray tank and mix thoroughly for 5 minutes.  Maintain agitation.
	<ul> <li>Do not apply Bumper 41VC on bananas or plantains unless they are protected by polyethylene bags</li> <li>Do not apply more than 24 fl oz of Bumper 41VC during each growing season (this includes any pre harvest sprays)</li> <li>Do not feed whole bananas and plantains to animals</li> </ul>		
			conazole per acre per season
BEETS GARDEN	Leaf Spot (Cereospora betieola) Powdery Mildew (Erysiphe polygoni)	3 4 fl oz	Begin applications at first sign of disease and repeat on a 14 day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. If disease levels continue to increase immediately switch to a fungicide with a different mode of action. Applications are most effective when applied and allowed to dry before a rainfall. Use sufficient water volume to provide thorough coverage. Bumper 41VC can be applied by ground air or chemigation.
	<ul> <li>Do not apply within 1</li> <li>Do not apply more th</li> <li>Do not apply more th</li> </ul>	an 16 fl oz per acre	e per season conazole per acre per season

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS	
BERRIES Bushberries Highbush Blueberry Lowbush Blueberry	Mummyberry Disease (Monilinia vaccinicorymbosi)	6 fl oz	Make first application beginning at green tip and repeat in 7 to 10 days. If conditions are favorable for disease development additional applications may need to be made at pink bud and repeated every 7 to 10 days through petal fall.	
Hlghbush Cranberry Black Currant Red Currant Elderberry	Leaf spot and Stem canker (Septoria albopucatate) Rust (Pucciniastrum vaccinii)	6 fl oz	Apply when conditions favor disease development Repeat applications on a 4 week spray interval	
Gooseberry Lingonberry Native Currant	Leaf and Cane Spot (Septoria rubi)	6 fl oz	Apply as a delayed dormant spray after training in the spring Repeat this application in the late spring again at bud break and again once flowering has begun	
Cultivars varieties and/or hybrids of these See additional	Powdery Mildew (Microsphaera vaccinii)	6 fl oz	Apply at 5 10% bloom Repeat this application at full bloom and on a 14 day interval while conditions are favorable for disease development	
crops below  Caneberries	Leaf Spot (Septoria spp)	6 fl oz	Make first application any time prior to bloom and again after petal fall If needed repeat application just after harvest	
Blackberry Loganberry Red and Black Raspberry Wild Raspberry Cultivars	Cottonball (Monilinia oxycocci)	4 6 fl oz	Make the first application at leaf bud break and repeat in 7 to 10 days. Make the third application at early bloom and repeat in 7 to 10 days. Apply in 20 to 50 gals of water for ground application or 5 gals of water for aerial application. Under severe pressure use the higher rate for control.	
varieties and/or hybrids of these See additional crops below	<ul> <li>Unless directed otherwise for a specific pest. Bumper 41VC may be applied by either ground in a minimum of 5 gal per acre or air in a minimum of 15 gal per acre.</li> <li>Do not apply more than 30 fl oz per acre per season of Bumper 41VC.</li> <li>Do not apply within 30 days of harvest.</li> </ul>			
Low Growing Berries (See Strawberry Section)	Do not apply more that	not apply more than 0 84 lb a r propiconazole per acre per season		

Additional Bushberries Aronia Berry Buffalo Currant Chilean Guava European Barberry Edible
Honeysuckle Huckleberry Kostaberry Juneberry (Saskatoon Berry) Salal Sea Buckthorn
Additional Caneberries Bingleberry Boysenberry Dewberry Lowberry Marionberry Olallieberry Youngberry

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
BULB VEGETABLES	Purple Blotch (Altemari porri)	4 8 fl oz	Apply by ground in a minimum of 15 gals of water per acre or by air in a minimum of 5 gals
Bulb Onions Garlic Bulb Onion Bulb Shallot Bulb	Suppression of Botrytis leaf blight (Botrytis squamosa)	2 4 fl oz plus tank mıx partner	of water per acre Begin applications when conditions favor disease development and continue on a 7 to 10 day interval. Use the higher rate and shorter interval when disease conditions are severe. In tank mix apply
Cultivars varieties and/or hybrids of these See additional crops below			specified rate in combination with another fungicide for control of Botrytis leaf blight or purple blotch. Begin applications when conditions favor disease development and continue on a 7 to 10 day interval or according
Green Onions Leek Fresh Onion			to the tank mix partner's label. Use higher rates when disease conditions are severe. To achieve optimum control use a wetting agent or a spreader/sticker.
Green Onion Fresh Shallot Leaves	Do not apply within 14 on the day of harvest	4 days of harvest or for green onion typ	
Cultivars varieties and/or hybrids of these See additional crops below	Do not apply more that	апо 45 ю ат ргорю	conazole per acre per season
	on Onions Fresh Chive Lea	aves Fresh Chinese	lic Serpent Garlic Lily Chinese Onion Pearl e Chive Leaves Host Elegans Fritillaria Leaves ostem Onion Tree Tops Onion Welsh Onion
CARROTS	Leaf Blights (Cercospora carotae) (suppression of Alternaria dauci) Powdery Mildew	4 fl oz	Apply when conditions favor disease development Continue applications on a 7 to 10 day interval using the shorter interval when disease conditions are severe. If desired a spreader sticker may be used
	(Erysiphe polygoni)	2 fl oz plus chlorothalonil at 0 75 lb a i	Apply specified rate of Bumper 41VC with 0.75 lb a i of chlorothalonil per acre Begin applications when conditions favor disease development Continue applications on a 7 to 10 day interval
	<ul><li>minimum of 5 gal per</li><li>Do not apply more th</li><li>Do not apply within 1</li></ul>	acre an 16 fl oz per acre 4 days of harvest	ground in a minimum of 15 gal per acre or air in a

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
CELERY AND LEAF PETIOLES SUBGROUP Celery Chinese Celery Cardoon	Early blight (Cercospora apii) Late blight (Septoria apicola)	4 fl oz	Apply specified rate of Bumper 41VC on a 7 day schedule either by ground or air. If desired Bumper 41VC may be tank mixed with an appropriate spreader sticker. Apply in 10 gals of water for ground application or 5 gals of water for aerial application.
Celtuce Florence Fennel Rhubarb Swiss Chard	Do not apply within 14	4 days of harvest an 0 45 lb a ı propı	er 41VC per acre per crop season conazole per acre per season
CEREALS Barley Rye Triticale Oats	Control of leaf diseases Rusts ( <i>Puccinia</i> spp) Powdery mildew ( <i>Blumeria</i> spp <i>Erysiphe</i> spp) Leaf blight ( <i>Septoria</i> tritici) Glume blotch ( <i>Stagonospora</i> nordorum) Tan spot ( <i>Pyrenophora</i> tritici repentis) Helminthosporium leaf blight ( <i>Drechslera</i> tritici repentis) Spot blotch ( <i>Bipolaris</i> sorokinina) Barley scald ( <i>Rhynchosporium</i> secalis) Barley stripe ( <i>Pyrenophora</i> graminea) Net blotch ( <i>Pyrenophora</i> teres)	4 fl oz	Protecting the flag leaf is important for maximizing yield. When Bumper 41VC is applied at 50% to fully emerged the highest yields are normally obtained. Applications may be made no closer than at 14 day intervals. The use of an oil based adjuvant may improve spray coverage.
	Early Season Suppression of Tan spot Powdery mildew Glume blotch Leaf Blight (Septoria tritici)	2 4 fl oz	For early season leaf disease suppression apply specified rate of Bumper 41VC for suppression of listed diseases. Apply in the spring. Make a second application up to Feekes growth stage 10.5 for season long control. Applications may be made no closer than a 14 day interval.
	Foot rot (Pseudocercosporellasp p)  Fusarium head blight (suppression only)	4 fl oz	Apply specified rate of Bumper 41VC per acre plus half rates of other EPA registered fungicides such as Topsin® M Apply at tillering but before elongation has occurred  Apply Bumper 41VC at approximately 50% flowering Addition of a penetrating type of adjuvant may increase Fusarium head blight
			adjuvant may increase Fusarium head blij suppression

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
<b>CEREALS</b> Wheat	<ul> <li>Do not apply more that the more than 4 floz per</li> <li>Do not apply within 3 and straw or for ceres</li> </ul>	han 8 fl oz of Bum acre per season if f 0 days of harvest f als other than whea	air or chemigation equipment per 41VC per acre per season but do not apply forage or hay will be harvested or forage or hay 45 days before harvest for grain it conazole per acre per season  Protecting the flag leaf is important for maximizing yield When Bumper 41VC is applied at 50% to fully emerged the highest yields are normally obtained Applications may be made no closer than at 14 day intervals
	Erysiphe spp ) Leaf blight (Septoria tritici) Glume blotch (Stagonospora nordorum) Tan spot (Pyrenophora tritici repentis) Helminthosporium leaf blight (Drechslera tritici repentis) Spot blotch (Bipolaris sorokiniana) Net blotch (Pyrenophora teres)		The use of an oil based adjuvant may improve spray coverage  Bumper 41VC can be applied through full head emergence (Feekes growth stage 10 5)  Do not apply after this stage to avoid possible illegal residues
i	Early Season Suppression of Powdery mildew (Blumeria spp Erysiphe spp) Leaf Blight (Septoria tritici) Glume blotch (Stagonospora nordorum) Tan spot (Pyrenophora tritici repentis)	2 4 fl oz	Apply in the spring Make a second application up to Feekes growth stage 10 5 for season long control Applications may be made no closer than at 14 day intervals
	Foot rot (Pseudocercosporella spp)	4 fl oz	Apply Bumper 41VC per acre plus half rates of other EPA registered fungicides such as thiophanate methyl Apply at tillering but before elongation has occurred
	Fusarium head blight (suppression only)	4 fl oz	Apply Bumper 41VC at approximately 50% flowering Addition of a penetrating type of adjuvant may increase Fusarium head blight suppression

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
	For best results sufficient Applications may be mad <b>Specific Use Restriction</b> Do not apply within 30  Do not apply more that a point apply more than	VC is most effective ent water volume le using ground air is 0 days for harvest for an 8 fl oz of Bumpe an 4 fl oz per acre pan 0 22 lb a i propie	r 41VC per acre per season per season if forage or hay will be harvested conazole per acre per season
CITRUS (non bearing) Calamondin Citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma Mandarin Tangerine Including all cultivars and/or hybrids of these	<ul> <li>Do not apply to citrus</li> </ul>	that will bear harve	Begin applications in June Apply at 30 day intervals through August Bumper 41VC may be applied by either ground or aerial application in a minimum of 15 gal per acre  per season of Bumper 41VC estable fruit within 12 months conazole per acre per season
CORN (field seed and popcorn) SWEET CORN		n 16 fl oz of Bumpe	er 41VC per acre per season
	<ul> <li>Do not apply within 30 days of harvest for forage grain and stover</li> <li>Do not apply more than 8 fl oz of Bumper 41VC per acre per season on field corn harvested for forage</li> <li>Do not apply more than 0 45 lb a i propiconazole per acre per season For sweet corn</li> <li>Do not apply within 14 days of harvest for ears and 14 days of harvest for forage</li> </ul>		

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS	
CRAN BERRIES (OR WA WI only)	Cottonball (Monilinia oxycocci)	4 6 fl oz	Make the first application at leaf bud break Make the second application 14 days later Make the third application at early bloom and repeat again in 14 days. Under severe pressure use the higher rate for control. Bumper 41VC may be applied by either ground or aerial application equipment in a minimum of 20 gal per acre.	
	Do not apply within 4:	5 days of harvest	per season of Bumper 41VC	
FILBERTS (Hazelnuts)	Eastern Filbert Blight (Anisogramma anomala)	5 8 fl oz	Begin applications when green leaf tissue becomes visible and continue at 14 to 21 day intervals. Under severe disease conditions use the higher rate and shorter interval. On certain varieties. Bumper 41VC applications may cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to propiconazole treatments. Bumper may be applied by either ground or aerial application in a minimum of 15 gal per acre.	
	<ul> <li>Do not apply more than 32 fl oz per acre per season of Bumper 41VC</li> <li>Do not apply more than 0 90 lb a r propiconazole per acre per season</li> <li>Do not apply within 60 days of harvest</li> <li>Do not graze livestock in treated areas or cut treated crop for feed</li> </ul>			
GRASSES GROWN FOR SEED (Nebraska Oregon Washington Idaho and Minnesota only)	Rusts ( <i>Puccinia</i> spp ) Powdery mildew ( <i>Erysiphe</i> spp ) Selenophoma stem eyespot ( <i>Selenophoma</i> spp ) Ergot Suppression	4 8 fl oz	Apply Bumper 41VC at specified rates by ground by air in a minimum of 10 gals of water per acre or through irrigation equipment. Apply when powdery mildew and Selenophoma infections or rust pustules are noticeable and increasing in number in late spring or early summer. Repeat at 14 to 21 day intervals. To maximize control under severe rust pressure use the higher rate of 8 fl oz per acre and make applications at 14 day intervals until the seed is mature. Make the last application at least 20 days before seed matures. For bluegrass, it is important to begin applications early in the growing season.	
	Do not feed hay cut wit     Do not graze treated a	thin 20 days of the l reas within 140 day	• •	

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
MINT Peppermit Spearmint	Rust ( <i>Puccinia</i> menthae)	4 fl oz	Apply specified rate of Bumper 41VC in a minimum of 20 gals of water per acre using ground application. Begin applications when plants are 2 to 4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.
	<ul> <li>Do not apply within 7 d</li> <li>Do not exceed 12 fl oz</li> <li>Do not apply more than</li> </ul>	of Bumper 41VC p	er acre per season conazole per acre per season
PARSLEY Fresh and Dried Leaves  CILANTRO (Coriander) Leaves	Leaf Spot (Cercospora spp)  Leaf Spot (Alternaria spp)  Powdery Mildew (Erysiphe spp)  • Do not apply more the	3 4 fl oz	Begin applications at first sign of disease and repeat on a 14 day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. If disease levels continue to increase immediately switch to a fungicide with a different mode of action. Applications are most effective when applied and allowed to dry before a rainfall. Use sufficient water volume to provide thorough coverage. Bumper 41VC can be applied by air ground or chemigation equipment.
		t apply more than 0 45 lb a r propiconazole per acre per season t apply within 14 days of harvest	
PEANUTS	Late leaf spot (Cercosporidium personatum) Early leaf spot (Cercospora arachidola) Rust (Puccinia arachidis) Web Blotch (Phoma arachidicola)	2 5 4 fl oz	Use 2 5 4 fl oz on Early leaf spot and use 4 fl oz on all other listed diseases. Apply the specified dosage of Bumper 41VC alone using ground aerial or chemigation equipment beginning applications 35 to 40 days after planting or at the first appearance of disease. Continue applications on a 10 to 14 day schedule. Under heavy disease pressure use higher application rates. Bumper 41VC also may be used in State Agricultural. Extension advisory (disease forecasting) programs which specify application timing based on environmental factors favorable for disease development.

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
	Southern Stem Rot (Sclerotium rolfsii)	See APPLICATION INSTRUC TIONS section for appropriate rate	Apply Bumper 41VC at the specified rate according to one of the following schedules  A Apply 4 fl oz of Bumper 41VC per acre to the crown and pegging zones of the plant using chemigation or directed ground application Begin applications 45 days after planting or at the first appearance of disease and repeat on a 14 day schedule  B Apply 8 fl oz of Bumper 41VC per acre to the crown and pegging zones of the plant using chemigation or directed ground application Make 2 applications the first at pegging (approximately 60 days after planting) or at the first appearance of disease and the second application 3 to 4 weeks later  Irrigation When applying Bumper 41VC in irrigation water for Southern Stem Rot Control use a minimum of 0 25 to 0 5 inch of irrigation water per acre. Use enough water so that the fungicide penetrates the peanut canopy and reaches the crown of the plant where Sclerotium rolfsii is most active.  When using Bumper 41VC via irrigation or directed ground application additional methods should be used for leaf spot control.
	<ul> <li>Do not feed hay from t</li> <li>Do not apply within 14</li> <li>21 days of harvest if us</li> </ul>	reated fields to live days of harvest wh sing 8 fl oz per acre	er 41VC per acre per season stock if the high rate was used nen using no more than 4 fl oz per acre and within

CROP	PESTS CONTROLLED	RATE OF	APPLICATION INSTRUCTIONS
	,	APPLICATION	
PECANS	Pecan Scab Cladosporium caryigenum) Downy Spot (Mycosphaerella caryigena) Liver Spot (Gnomonia caryae pv pecanae) Vein Spot (Gnomomia nerviseda) Zonate Leaf Spot (Cirstulariella moricola) Powdery Mildew (Microsphaera penicillata)	PER ACRE 4 8 fl oz	Pecan scab Apply 4 8 fl oz per acre on a 14 day schedule during bud break and pre pollination sprays Apply 6 8 fl oz per acre during nut formation and cover sprays Use higher rates when disease pressure is heavier Other listed foliar diseases Apply 4 fl oz per acre with other registered pecan products labeled for these mid to later season foliar diseases Observe all directions precautions and limitations for the other products Bumper 41VC may be applied by either ground or by aerial application in a minimum of 20 gal per acre  Propiconazole may have effects on federally listed threatened and endangered species or critical habitat in some counties. When using this product you must follow the measures contained in the County Bulletin for the county in which you are making the pesticide application. To determine whether your county has a bulletin consult <a href="http://www.epa.gov/espp/usa.map.htm">http://www.epa.gov/espp/usa.map.htm</a> Bulletins may also be available from local pesticide agencies
		Do not apply more than 32 fl oz of Bumper 41VC per acre per season	
	<ul><li>Do not apply after she</li><li>Do not apply more the</li></ul>		oiconazole per acre per season
	Do not graze livestoc	k in treated areas o	r cut treated cover crop for feed
PINEAPPLE (Hawaii only)	butt rot disease of pineapple (Ceratocystis paradoxa)	0 75 fl oz (22 ml) per 100 gals of water (1 17 000)	Treatments can be made in either a cold or hot water dip  Cold Water Dip Immerse crowns to give thorough wetting remove and allow to drain  Hot Water Dip Maintain water temperature at 125 F (52 C) Soak crowns for 20 to 30 minutes remove and allow to drain
	Do not use treated cro     Do not graze while plan     Do not graze tops until	nt is growing fruit is harvested	
	Dispose of used dip solution according to local state and federal regulations		

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
PISTACHIOS		5 8 fl oz an 32 fl oz per acre 0 days of harvest an 0 90 lb a ı propı	conazole per acre per season
			r cut treated cover crop for feed
RICE	Sheath blight (Rhizoctonia solani) Brown leaf spot (Helminthosporium oryzae) Narrow brown leaf spot and brown blotch (Cercospora oryzae) Leaf smut (Entyloma oryzae) Sheath spot (Rhizoctonia oryzae) Kernel smut (Tilletia barclayana) Aggregate sheath spot (Rhizoctonia oryzae sativa) Black sheath rot (Gaeumannomyces graminis) Stem rot suppression (Sclerotium oryzae) False smut suppression (Ustilaginoida virens)	See APPLICATION INSTRUC TIONS section for appropriate rate	The timing of Bumper 41VC application will depend on disease severity disease complex and rice variety and growth stage. Apply Bumper 41VC at specified rates on either of the following schedules as an aerial spray in 5 to 10 gals of water per acre.  A 6 fl oz per acre at first internode elongation (up to 2 inch panicle) and repeat at swollen boot. Make the second application 10 to 14 days after the first application but before the boot splits and head emerges. Bumper 41VC provides best control of sheath blight when the first application is applied at disease appearance in the field. Make the first application when 5% or fewer of the tillers are infected.  B 10 fl oz per acre at first internode elongation (up to 2 inch panicle). Use the 10 oz rate if greater than 10% of the tillers are infected with sheath blight. If disease reappears use another registered fungicide for the second application.  C Apply 6 fl oz per acre in a tank mix with Quadris® or other fungicides for control of diseases of rice.
WILD RICE (MN only)	Helminthosporium leaf blight and brown spot ( <i>Bipolaris</i> spp)	6 8 fl oz	Apply specified rate of Bumper 41VC per acre at both booting and heading or make a single application of 8 fl oz per acre at booting Make application using aerial application equipment The minimum application interval is 10 days

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
SORGHUM	For Rice and Wild Rice Uses Propiconazole may have effects on federally listed threatened and endangered species or critical habitat in some counties. When using this product you must follow the measures contained in the County Bulletin for the county in which you are making the pesticide application. To determine whether your county has a bulletin consult <a href="http://www.epa.gov/espp/usa.map.htm">http://www.epa.gov/espp/usa.map.htm</a> Bulletins may also be available from local pesticide dealers extension offices or state pesticide agencies.  • Do not make applications using ground or chemigation equipment. Only aerial application is allowed.  • Do not apply to stubble or ration crop rice.  • Do not apply to stubble or ration crop rice.  • Do not drain water from treated rice fields into ponds used for commercial fish farming.  • Do not drain water from treated rice fields to irrigate other crops.  • Do not apply more than 12 fl oz of Bumper 41VC per acre per season.  • Do not apply within 35 days of harvest.  • Do not apply more than 0 34 lb a i propiconazole per acre per season.  Ergot (Claviceps		
	<ul> <li>Do not apply within 30</li> <li>Do not apply within 21</li> <li>Do not graze livestock</li> <li>Do not apply more tharvested for forage</li> </ul>	flowering Repeat on a 5 to 7 day interval Apply up to four times Make application using aerial application equipment in a minimum of 10 gals of spray per acre or by ground in a minimum of 15 gals of spray per acre han 16 fl oz of Bumper 41VC per acre per season 30 days of harvest for forage 21 days of harvest for grain and stover ck or cut for green chop or silage within 30 days of application e than 8 fl oz of Bumper 41VC per acre per season on sorghum	

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
SOYBEANS	Aerial Web Blight (Rhizoctonia solani) Anthracnose (Colletotrichum truncatum) Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Soybean Rust (Phakopsora pachyrhizi)	4 6 fl oz	Applications may be made using ground or aerial application equipment. Use dilution rates found in the APPLICATION INSTRUCTIONS section of this label. When applying by air add an oil based additive for improved coverage and penetration. Apply 5.6 fl. oz at the first appearance of Aerial web blight and repeat the application 14 to 21 days later. Under severe conditions use the higher rate and shorter interval. For control of other foliar diseases apply 6 fl. oz at growth stage R3 (early pod set) when pods are 1/8 to ½ inch long and 21 days later at growth stage R5 (pod fill). Apply 4.6 fl. oz at first indication that soybean rust is in the area. For best control preventative applications work best. Repeat on a 14 to 21 day interval using the higher rate and shorter interval when disease is present in field and incidence is less than 2% (2 plants in 100 infected). If incidence is greater than this or if disease is in mid canopy control will not be acceptable. Scouting for rust and/or being aware of the proximity of the disease via monitoring systems will aid in the proper timing to maximize the effectiveness of the fungicide applications. On certain varieties. Bumper applications may cause crinkled or smaller greener leaves. Yields of dry beans displaying these characteristics have not been reduced due to propiconazole treatments.
	Applications may be n	nan 12 fl oz of Bumper 41VC per acre per season made up to growth stage R6	
STONE FRUIT	<ul> <li>Do not apply more that Brown Rot Blossom</li> </ul>	an 0 34 lb a i propiconazole per acre per season  4 fl oz Apply by ground or air in a minimum of 15 gal	
APRICOTS CHERRIES (SWEET AND TART) NECTARINES PEACHES PLUMS PLUMCOTS PRUNES AND CULTIVARS	Blight (Monilinia spp )	4 11 02	per acre at early bloom stage. Stone fruit diseases are most effectively controlled by ground applications. If disease pressure is low a second application may be made as needed up through petal fall. Make a second application if disease pressure is high or for susceptible varieties at 75 100% bloom. If blossoming is prolonged or conditions favorable for disease persist, make a third application at petal fall.

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS	
AND OR HYBRIDS OF THESE	Powdery Mildew (Podosphaera spp) Cherry Leafspot (Blumeriella jaapii) Rust (Tranzschelia discolor)	4 fl oz	Follow the brown rot blossom blight schedule above applying by ground or air in a minimum of 15 gal per acre. Stone fruit diseases are most effectively controlled by ground applications. Make up to 2 additional applications on a 10 to 14 day interval from the end of petal fall to harvest.	
	Fruit Brown Rot ( <i>Monilinia</i> spp)	4 fl oz	Apply by ground or air in a minimum of 15 gal per acre as needed with a maximum of 2 sprays during the preharvest period up to the day of harvest (0 day PHI) Stone fruit diseases are most effectively controlled by ground applications If high inoculum and severe disease conditions persist apply another registered fungicide after the two Bumper 41VC applications	
		mper 41VC may be applied on the day of harvest		
		re than 0 56 lb a i propiconazole per acre per season		
		more than 20 fl oz of Bumper 41VC per acre per season		
	fruit to be less oval in	er 41VC during bloom to Stanley plums have occasionally caused in shape and smaller in size at harvest. To avoid this, do not apply ley plums earlier than 21 days before harvest.		
STRAW BERRIES AND OTHER LOW GROWING BERRIES Additional Low	Anthracnose (Colletotrichum acutatum) Leaf Spot (Cercospora fragariae) Powdery Mildew (Sphaerotheca	4 fl oz	Begin applications when disease levels are no more than 5% Apply up to 4 times on a 7 day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action.  Bumper 41VC may be applied by either ground.	
Growing Berries Bearberry Bilberry	macularis) Leaf Rust (Phragmidium potentillae)		in a minimum of 20 gal per acre or aerial in a minimum of 15 gal per acre	
Cloudberry Muntries Partridgeberry	Bumper 41VC may b	e applied on the da	er 41VC per acre per season y of harvest conazole per acre per season	

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER ACRE	APPLICATION INSTRUCTIONS
SUGAR BEETS	Leaf Spot ( <i>Cercospora</i> beticola) Powdery Mildew ( <i>Erysiphe polygoni</i> )	4 fl oz	Begin applications at first sign of disease and repeat at 10 to 14 day intervals. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. If disease levels continue to increase immediately switch to a fungicide with a different mode of action. Bumper 41VC may be applied by air ground or chemigation equipment. Use dilution rates found in the APPLICATION INSTRUCTIONS section of this label.
	Do not apply within 2	1 days of harvest	er 41VC per acre per season
			conazole per acre per season
SUGARCANE	Pineapple disease (Ceralocystis paradoxa)	0 75 fl oz (22 ml) per 100 gals of water (1 17 000)	Apply Bumper 41VC to cut seed pieces Treatments can be applied in either a cold or hot water dip  Cold Water Dip Immerse seed pieces to give thorough wetting remove and allow to drain  Hot Water Dip Maintain water temperature at 125 F (52 C) Soak the seed pieces for 20 to 30 minutes remove and allow to drain  Conveyor Belt Treatment Treat seed pieces with Bumper/water solution using in line directed spray sufficient to wet cut ends
	Do not use treated seed pieces for food or feed purposes		
	Dispose of spent dip solution according to state and federal regulations		
TREE NUTS Almond (see specific directions in ALMOND Section)	Foliar Diseases	4 8 fl oz	Apply Bumper 41VC at first sign of disease Repeat on a 7 to 14 days interval Bumper 41VC may be applied by either ground or aerial application in a minimum of 15 gal per acre Tree nut diseases are most effectively controlled by ground applications

Beechnut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (see specific directions in FILBERT section) Hickory Macadamia Pecan (see specific directions in PECAN section) Walnut Pistachios (see specific directions in PISTACHIO	<ul> <li>Do not apply more than 32 fl oz of Bumper 41VC per acre per season</li> <li>Do not apply within 60 days of harvest except for pecan (see specific directions in PECAN section of this label)</li> <li>Do not apply more than 0 90 lb a i propiconazole per acre per season</li> <li>Do not graze livestock in treated areas or cut treated cover crop for feed</li> </ul>
section)	

# **POST HARVEST USE**

CROP	PESTS CONTROLLED	RATE OF APPLICATION PER 100 GALLONS	APPLICATION INSTRUCTIONS
Pineapple	Ceratocytis Butt Rot (Ceratocytis paradoxa)	3 4 fl oz	Apply Bumper 41VC at 3 to 4 fluid ounces in 100 gallons of water or wax water emulsion after harvest. Fruit should be dipped or sprayed for thorough coverage and allowed to drain Limit dipping time to no more than 3 minutes. Dip solution should be replaced with fresh dip solution after 200 000 lbs of fruit have been treated.  Fruit discarded from fresh fruit operations may be used for processing. Cannery wastes may be fed.
	<ul> <li>Do not apply more th</li> </ul>	o not apply more than 4 fl oz of Bumper 41VC as a post harvest treatment	

FL OZ OF BUMPER 41VC PER ACRE	LB A I PER ACRE	ACRES TREATED PER 1 GALLON OF BUMPER 41VC
2	0 056	64 0
4	0 1125	32 0
6	0 169	21 3
8	0 225	16 0
10	0 28	12 8
12	0 34	10 7
16	0 45	80
20	0 56	6 4
24	0 67	5 3

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30	0 84	4 3
32	0 90	4 0

# [Note to label editor This starts the NON AGRICULTURAL USES section of the label Product labeling may be segmented as allowed in 40CFR 152 130]

## NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses. Do not enter treated areas without protective clothing until sprays have dried

# INFORMATION FOR TURFGRASS AND ORNAMENTAL USES

Bumper 41VC is a systemic fungicide for use on turfgrasses for the control of dollar spot (Sclerotinia homoeocarpa) brown patch (Rhizoctonia solani) anthracnose (Colletotrichum graminicola) red thread (Laetisaria fuciformis) pink patch (Limonomyces roseipellis) rust (Puccinia graminis) powdery mildew (Erysiphe graminis) stripe smut (Ustilago striiformis and Urocystis agropyri) summer patch (Magnaporthe poae) necrotic ring spot (Leptosphaeria korrae) spring dead spot (Leptosphaeria korrae Leptosphaeria narmari Ophiosphaerella herpotricha Gaeumannomyces graminis) take all patch (Gaeumannomyces graminis) leafspot (Bipolaris spp Drechslera spp) gray leafspot (Pyricularia grisea) pink snowmold (Microdochium nivale) Fusarium patch (Fusarium nivale) gray snowmold (Typhula spp) yellow patch (Rhizoctonia cerealis) and zoysia patch (Rhizoctonia solani)

Bumper 41VC also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews rusts leafspots scabs and blights. Refer to the appropriate section for specified diseases and plants.

For turfgrass and ornamental uses do not apply this product through any type of irrigation system. Do not use Bumper 41VC in greenhouses or as a tree injection. Do not apply more than 5.8 fl oz per 1000 sq ft of Bumper 41VC per calendar year.

#### MIXING INSTRUCTIONS

Fill the spray tank 1/2 to 3/4 full with water Add the proper amount of Bumper 41VC and then add the rest of the water Provide sufficient agitation during mixing and application to maintain a uniform emulsion If Bumper 41VC is tank mixed with other products use the following sequence

- 1 Always check the compatibility of the tank mix using a jar test with proportionate amounts of Bumper 41VC other chemicals to be used and the water before mixing in the spray tank
- 2 Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended
- 3 Fill tank at least 1/2 full of clean water
- 4 Add wettable powders to the tank first allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank
- 5 Add flowables or suspensions next
- 6 Add Bumper 41VC next
- 7 Add emulsifiable concentrates last
- 8 Do not leave tank mix combinations in the spray tank for prolonged periods without agitation Mix and apply them the same day

#### **TANK MIXES**

For broader spectrum control Bumper 41VC can be tank mixed with other fungicides. For example Subdue Maxx® may be tank mixed with Bumper 41VC or used alone when conditions are favorable for Pythium blight Bumper 41VC is also compatible with numerous herbicides and insecticides. Check compatibility before tank mixing. Add Unite® (3 pts per 100 gals) to tank mixes which are incompatible. Follow the directions under **MIXING INSTRUCTIONS** section of this label for tank mixes. Observe all directions precautions and limitations

on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

# TURFGRASS AND DICHONDRA DISEASE CONTROL

- USE BUMPER 41VC IN A PREVENTIVE DISEASE CONTROL PROGRAM
- Apply in sufficient water to ensure thorough coverage
- Apply after moving OR allow sprayed area to completely dry before moving
- For control of foliar diseases allow sprayed area to completely dry before irrigation
- For control of soil borne diseases Bumper 41VC can be watered in after application
- Under conditions optimum for high disease pressure use the higher rate and the shorter interval
- For optimum turf quality and disease control use Bumper 41VC in conjunction with turf management practices that promote good plant health and optimum disease control
- Evaluate spray additives prior to use Label directions are based on data obtained with no additives
- Before use of any fungicide proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
- Do not apply more than 5 8 fl oz per 1 000 sq ft per calendar year nor apply more than 1 79 lb a ı per acre per application
- Do not graze animals on treated areas
   Do not feed clippings from treated areas to livestock or poultry
- Bermudagrass can be sensitive to Bumper 41VC Do not exceed 1 44 fl oz per 1 000 sq ft every 30 days on any variety of bermudagrass In Florida do not apply Bumper 41VC bermudagrass golf course greens when temperatures exceed 90 F

**TURFGRASS Specific Diseases Rates and Application Timing** 

DISEASE	FL OZ PER 1 000 SQ FT	FL OZ PER ACRE	APPLICATION INTERVAL/ TIMING	INSTRUCTIONS
Dollar Spot (Sclerotinia	0 18	8 0	7 days	Apply when conditions are favorable for disease development
homoeocarpa)	0 18	8 0	14 days	Tank mix with low label rate of one of the following fungicides Daconil Weatherstik® Daconil Ultrex®
	0 37	16	21 28 days	Tank mix with low label rate of one of the following fungicides Daconil Weatherstik Daconil Ultrex Chipco® 26019
	0 37 0 73	16 32	14 28 days	If using the 0 37 0 73 fl oz per 1 000 sq ft rate without tank mixing make no more than 3 consecutive applications for dollar spot control before rotating to an alternate EPA registered fungicide having a different mode of action
Anthracnose (Colletotrichum graminicola)	0 37 0 73	16 32	14 28 days	Apply when conditions are favorable for disease development. When disease pressure is high use higher rates of Bumper 41VC and shorter intervals. For broad spectrum control, tank mix with a registered contact fungicide at the label rate. If disease is present mix 0.73 fl oz of Bumper 41VC per 1.000 sq ft with the label rate of the above mentioned contact fungicides.
Brown Patch (Rhizoctonia solani)	0 37 0 73	16 32	14 21 days	Begin applications in May or June before disease is present. Tank mix with a

DISEASE	FL OZ PER 1 000 SQ FT	FL OZ PER ACRE	APPLICATION INTERVAL/ TIMING	INSTRUCTIONS
				registered contact fungicide labeled for brown patch control at the label rate. Under conditions of high temperatures and high humidity use the higher rates of Bumper 41VC and shorter intervals
Powdery Mildew (Erysiphe graminis) Rust (Puccinia graminis)	0 37 0 73	16 32	14 28 days	Apply when conditions are favorable for disease development. If disease is present use 0.73 fl. oz of Bumper 41VC per 1.000 sq. ft.
Red Thread (Laetisaria fuciformis) Pink Patch (Limonomyces roseipellis)	0 37	32	14 21 days	Apply when conditions are favorable for disease development
Stripe Smut (Ustilago striiformis) (Urocystis agropyri)	0 37 0 73	16 32	Fall or Spring	Apply once in the fall after grass becomes dormant or in the early spring before grass starts to grow
Gray Leafspot (Pyricylaria grisea)	0 37 0 73	16 32	14 days	Apply when conditions are favorable for disease development. If using the 037 fl oz per 1 000 sq ft rate tank mix with a registered contact fungicide at the label rate.
Melting out Leaf Spot (Bipolaris spp ) (Drechslera spp )	0 37 0 73	16 63	14 days	Under light to moderate pressure apply Bumper 41VC to reduce the severity of leaf spot and melting out. For broad spectrum disease control tank mix the 0.37 fl oz Bumper 41VC rate with a registered contact fungicide at the label rate. Tank mix the 0.37 0.73 fl oz per 1.000 sq.ft Bumper 41VC rate with a registered contact fungicide at the label rate.
Summer Patch Poa Patch (Magnaporthe poae)	0 73 1 45	32 63	14 days 28 days	Apply Bumper 41VC beginning in April Use the 1 45 fl oz per 1 000 sq ft rate on a 28 day schedule and the 0 73 fl oz per 1 000 sq ft rate on a 14 day schedule
Take All Patch (Gaeumannomyces gramınıs)	0 73 1 45	32 63	Spring and Fall	Apply Bumper 41VC to reduce the severity of take all patch Make 1 to 2 fall applications in September and October or when night temperatures drop to 55 F and 1 to 2 spring applications in April and May depending on local instructions
Spring Dead Spot (Leptosphaeria korrae Leptosphaeria narmari Ophiosphaerella herpotricha Gaeumannomyces graminis)	1 45	63	30 days	Make 1 to 3 applications For one application apply in September or October For multiple applications begin sprays in August
Necrotic Ring Spot (Leptosphaeria korrae)	1 45	63	Fall or Spring	Apply in the fall and/or the early spring depending on local instructions

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DISEASE	FL OZ PER 1 000 SQ FT	FL OZ PER ACRE	APPLICATION INTERVAL/ TIMING	INSTRUCTIONS
Snowmold Gray (Typhula spp ) Pink (Microdochium nivale)	0 73 1 45	32 63	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow For optimum disease control the 0.73 1.45 fl. oz Bumper 41VC rate should be tank mixed with either PCNB or chlorothalonil at label rates.
Fusarium Patch (Fusarium nivale)	0 73 1 45	32 63	Fall Early Spring	Apply when conditions are favorable for disease development
Yellow Patch (Rhizoctonia cerealis)	1 10 1 45	48 63	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow. If using a 1.10 floz per 1.000 sq.ft rate tank mix with a registered contact fungicide at the label rate.
Zoysia Patch large patch of zoysia (Rhizoctonia solani)	1 10 1 45	48 63	Early Fall	Make one application in the early fall (mid September to mid October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine the optimum application timing for your area.

**DICHONDRA Specific Disease Rates and Application Timing** 

DIGITORDIAN OPCO	IIIO DISCUSC 130	atos una A	phication infining	
DISEASE	FL OZ PER 1 000 SQ FT	FL OZ PER ACRE	APPLICATION INTERVAL/ TIMING	INSTRUCTIONS
Dichondra Rust (Puccinia dichondrae)	0 73	32	14 21 days	Apply when conditions are favorable for disease development

## **Establishment of Cool Season Turfgrass**

Bumper 41VC provides control of many diseases of turf and its primary use is as a fungicide for use against the diseases listed on this label. As an additional benefit. Bumper 41VC will improve the rate of establishment when it is applied to cool season grass seedlings or sod

**New Seedlings** Apply 0 35 fl oz per 1 000 sq ft at the 2 to 3 leaf stage of growth for faster root development and top growth

**Sod** Apply 0.35 fl oz per 1.000 sq ft 2 to 6 weeks before cutting for increased sod knitting and faster establishment after laying

# DISEASE CONTROL IN NURSERIES (FIELD) AND LANDSCAPE PLANTINGS

- USE BUMPER 41VC IN A PREVENTIVE DISEASE CONTROL PROGRAM
- To determine the use directions for controlling a disease on an ornamental plant species select the plant species in Table 1. The number in parentheses following the plant species refers you to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers you to the application regime in Table 3.
- Allow spray to dry before overhead irrigation is applied
- Optimum benefit of Bumper 41VC is obtained when used in conjunction with sound disease management practices

# Instructions

Bumper 41VC may be used at rates of 0.75 8.7 fl oz per 100 gals of water for control of diseases of ornamental plant species (see Tables 1.2 and 3.)

For outdoor uses you can apply up to 2 0 gals of Bumper 41VC per acre per crop per calendar year

Bumper 41VC/Bumper ES EPA Reg No 66222 241 Clean Copy Master Label Update July 17 2012 Page 26 of 30 For general disease control in landscapes apply 2 2 3 0 fl oz per 100 gals of water every 21 days. For best control begin Bumper 41VC applications before disease development

Plant tolerances to Bumper 41VC have been found acceptable for the specific genera and species of plants listed under the **DIRECTIONS FOR USE** Other plant species may be sensitive to Bumper 41VC and diseases other than those listed may not be controlled Before using Bumper 41VC on plants or for diseases that are not listed in the **DIRECTIONS FOR USE** test Bumper 41VC on a small scale basis first. Do not apply Bumper 41VC to African violets begonias Boston fern or geraniums. Apply the specified rates for a particular type of disease i.e. rust powdery mildew etc. and evaluate for phytotoxicity and disease control prior to widespread use

# **Table 1 Ornamentals Plant Species**

Numbers in parentheses refer to diseases controlled See Table 2

Hawka a a a ya Ownamantala	Mandy Ornamantala	Nonbearing Fruits and Nuts (Nurseries and Landscape
Calendula (4a) Carnation (5f) Chrysanthemum (2a) Delphinium (4a) English Ivy (3e) Gomphrena (3a) Impatiens (3a 3b 4a) Iris (5d) Marigold (3a) Monarda (4c) Phlox (4c) Snapdragon (5d) Sweet William (3k) (Dianthus barbatus) Zinnia (4c)	Moody Ornamentals  Amelanchier (4d) Ash (4c) Azalea (2c 4b) Bayberry (3n) Camellia (3e) Cotoneaster (3i) Crabapple (3c 3q 4c 5a) Crape Myrtle (4a) Dogwood (3h 4c) Douglas Fir (5b) Elm (4c) Euonymus (3e 4c) Hawthorn (5a)  Holly (3r) Juniper (1a) Lilac (4c) Linden (3e 3b 4b) Magnolia (3e 4b) Maple (3e 4f) Oaks (3p) Pines (1b 1c) Poplars (5b) Pyracantha (3o) Red Tip Photinia (3i) Rhaphiolepsis (3e 3i) Rhododendron (2c 3n) Roses (3g 4e 5c) (Outdoor Use Only) Shasta Fir (5e) Sweetgum (3b 3c 3n) Sycamore (3e) Tulip Tree (3e 4a) Wax Myrtle (3n)	Apple (3q 4d 5a) Batlett Pear (3q 4c 5a) Cherry (2b 3d) Citrus (3m) Nectarine (2b) Peach (2b) Pecan (3b 3c 3f 3l 3n 4e) Plum (2b) Walnut (3j)

#### Table 2 Diseases

Letters in brackets refer to application regimes See Table 3

- 1 Conifer Blights
  - a Phomopsis juniperovora (Phomopsis Blight) [B]
  - b Sirrococcus strobolinus (Tip Blight) [D]
  - c Sphaeropsis sapinea (Diplodia Tip Blight) [B]
- 2 Flower Blight
  - a Ascochyta chrysanthemi (Ray Blight) [C]
  - b Monilinia spp [A]
  - c Ovulinia spp [B]
- 3 Leaf Blights/Spots
  - a Alternaria spp [B]
  - b Cercospora spp (Brown Leaf Spot) [C]
  - c Cladosporium spp (Scab) [C]
  - d Coccomyces hiemalis [A]
  - e Colletotrichum spp [B]
  - f Cristulariella spp (Zonate leafspot) [C]
  - g Diplocarpon rosae (Blackspot) [B]
  - h Discula spp (Anthracnose) [A]
  - ı Fabraea maculata (syn Entomosporium maculata) [B]
  - J Gnomonia leptostyla (Anthracnose) [C]
  - k Heterosporium echinulatum [B]
  - I Mycosphaerella caryigena (Downy Spot) [C]
  - m Mycosphaerella fructicola (Greasy Spot) [E]
  - n Septoria spp (Leaf Scorch) [C]
  - o Spilocaea pyracanthae [B]
  - p Tubakıa dryına [D]
  - q Venturia inaequalis (Scab) [A]
  - r Rhizoctonia web blight [B]
- 4 Powdery Mildew
  - a Erysiphe spp [B]
  - b Microsphaera spp [C]
  - c Oidium spp [B]
  - d Podosphaera spp [B]
  - e Sphaerotheca pannosa [B]
  - f Phyllactinia spp [B]
- 5 Rust
  - a Gymnosporangium juniperi virginianae [A]
  - b Melampsora occidentalis [D]
  - c Phragmidium spp [B]
  - d Puccinia spp [B]
  - e Pucciniastrum goeppertianum [D]
  - f Uromyces dianthi (B)

# **Table 3 Application Regimes**

- [A] Mix 0 75 1 5 fl oz of Bumper 41VC in 100 gals of water and apply as a full coverage spray to the point of drip Apply every 14 21 days during the period of primary infection. If disease is present, tank mix with an EPA registered contact fungicide. For flower blight, apply Bumper 41VC when there is 5 10% bloom and again at 70 100% bloom. For dogwoods apply the 0 75 1 5 fl oz rate every 14 days or apply 3 fl oz of Bumper 41 VC every 28 days.
- [B] Mix 1 8 3 0 fl oz of Bumper 41VC in 100 gals of water and apply as a full coverage spray to the point of drip Apply as needed beginning when conditions are favorable for disease development. For blackspot apply with a registered contact fungicide labeled for black spot. For Calendula apply every 30 days. For diplodia tip blight, make 3 applications every 14 days prior to major period of infection. For juniper phomopsis blight make first application as soon as junipers start to grow and repeat the applications every 14 21 days during periods of active growth.
- [C] Mix 3 4 5 fl oz of Bumper 41VC in 100 gals of water and apply as a full coverage spray to the point of drip Apply every 30 days beginning when conditions are favorable for disease development. For pecans, apply the 4 5 fl oz rate beginning at bud break. Apply 3 times on 14 day intervals. For walnut apply 3 fl oz at 14 to 21 day intervals. For ray blight, apply 4 5 fl oz at 7 day intervals or 7 5 fl oz at 14 day intervals. For impatiens, bayberry, linden magnolia sweetgum and wax myrtle, the maximum use rate is 8 fl oz.
- [D] Mix 6 fl oz of Bumper 41VC in 100 gals of water and apply as a full coverage spray to the point of drip. Apply every 14 28 days beginning when conditions are favorable for disease development. For Douglas fir needle rust apply once in May. For tip blight initiate applications in mid late winter, and apply 3 times at 2 month intervals.
- [E] Mix 7 5 8 7 fl oz of Bumper 41VC in 100 gals of water and apply as a full coverage spray to the point of drip Apply during June to August time period

Do not apply to apple Bartlett pear cherry citrus nectarine peach pecan plum or walnut trees that will bear harvestable fruit within 12 months

#### STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store in the original container in a cool and secure place

**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 instructions 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 HANDLING**

Nonrefiliable Container (five gallons or less) Nonrefiliable container. Do not reuse or refilit his container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefiliable Container (greater than five gallons) Nonrefiliable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable Container (greater than 55 gallons) Refillable container Refill this container with propiconazole only Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities For minor spills, leaks, etc. follow all precautions indicated on this label and clean up immediately. Take special

#### LIMITATION OF WARRANTY AND LIABILITY

care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes

Read the entire directions for use conditions 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

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Bumper 41VC (66222 241) (Stamped label 4 30 12) (with EPA required edits 5 9 12) (ABN Notif 5 10 12) (Logo Notif 7 16 12)