Dr. Richard A. Carver
E.I. DuPont de Nemours and Company
Agricultural Products
P.O. Box 80038
Wilmington DE 19880-0038

Dear Dr. Carver:

Subject: Benlate Fungicide

EPA Reg. No. 352-354 Benlate SP Fungicide EPA Reg. No. 352-564

Your Submissions of February 26, 1998

The amendments referred to above, submitted in connection with registration under section 3(c)(7)(A) for the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) are acceptable provided that you:

- 1. Submit/cite all data required for registration and reregistration of your product under section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit one (1) copy of your final printed labeling before you release the label for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the supplemental labels bearing the amended labeling constitutes acceptance of these conditions.

Stamped copies of the labels are included for your records.

Sincerely yours,

Mary J. Walles

Mary L. Waller

Acting Product Manager (21)

Fungicide Branch

Registration Division (7505C)

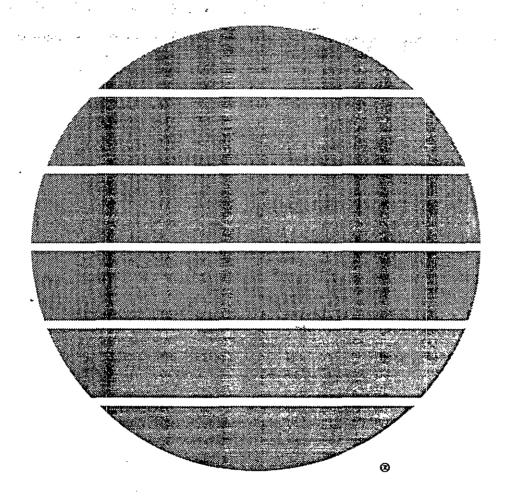
Enclosure

7505C:C.Grable:cg:3/18/98



Benlate® SP

fungicide



".......... A Growing Partnership With Nature"

TABLE OF CONTENTS

3/6				
716	- 4	: 1	,., ·	
716	.=.) ./	2.35	
-/10		81	7	•
? -] " ±#2		///	9	•
	-7	:	2.7.3	

Precautionary Statements
Directions For Use
Agricultural Use Requirements 2
General Information
Chemigation 3
Spray Drift Management 4
Crop/Rate Tables
Storage and Disposal
Notice of Warranty



Benlate® SP

fungicide

For Sale and Use in California

Wettable Powderin Water Soluble Film

Active Ingredient	By Weight
Benomyl	
Methyl 1-(butylcarbamoyl)-2-	1
benzimidazolecarbamate	150%
Inert Ingredients	50%
TOTAL	100%

EPA Reg. No. 352-564

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! MAY IRRITATE EYES, NOSE, THROAT AND SKIN.

Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing.

This product may cause a temporary allergic skin reaction in a few susceptible persons. This condition should be treated as an allergic dermatitis. There is no evidence of after effects or permanent injury.

First Aid: In case of contact, flush skin or eyes with plenty of water, for eyes, get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637.

PRECAUTIONARY STATEMENTS

(continued in next column)

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 23 1998

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

PRECAUTIONARY STATEMENTS (continued) PERSONAL PROTECTIVE EQUIPMENT Handlers who may be exposed to the dilute through

Handlers who may be exposed to the dilute through application of other tasks must wear:

Long-sleeved shirt and long pants.

Waterproof gloves and chemical-resistant footwear plus

Chemical-resistant apron when cleaning equipment.

If spray equipment is not equiped with vehicle mounted spray nozzles directed downward and located below the level of the handler, the handler must also wear.

Full body, chemical-resistant clothing.

A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

Long-sleeved shirt and long pants.

Waterproof gloves and chemical-resistant footwear plus

Chemical-resistant apron when mixing or loading.
For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

For exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

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 part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 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. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Drift and runoff from treated areas may be hazardous to fish in adjacent areas. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from areas treated.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from fire or sparks.

4/6

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 24 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.

Waterproof gloves.

Chemical-resistant footwear plus socks.

BENLATE SP should be used only in accordance with the recommendations on this label, or the recommendations in separate DuPont publications available through local dealers.

DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by DuPont. User assumes all risk associated with such nonrecommended use.

Do not formulate this product into other end-use products without written permission from DuPont.

GENERAL INFORMATION

BENLATE SP is a systemic fungicide recommended for the control of many important plant diseases. Apply as a spray with ground equipment, except as otherwise directed in the "Crop/Rate Table", using sufficient water to obtain thorough coverage of plants. Application by air or chemigation is permitted for some crops. Under severe disease conditions, use the higher treatment rate and shorter interval for repeat applications as specified on the label for each crop. Large mature trees will also require the higher labeled rate. Use only in commercial or farm plantings. Not for use in home plantings nor once any commercial crop is turned into "U-Pick", "Pick Your Own" or similar operation.

Resistance Management

If treatment with BENLATE SP is not effective, a benomylresistant strain of the fungus may be present. If this is the case, neither BENLATE SP nor any other benzimidazole- or thiophanate-type fungicide will effectively control that disease. Consider prompt use of other types of suitable fungicides.

Repeated, exclusive use of BENLATE SP may lead to buildup of resistant strains of fungi and loss of disease control. A spray program alternating BENLATE SP use with other fungicides may delay buildup of resistant strains. For guidance on your particular crop and disease control situation, consult your state extension specialist or official state recommendations.

Integrated Pest Management

DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

Preparation of Spray Mixture

Add the required amount of BENLATE SP to the necessary volume of water in the spray tank; continuously agitate the tank by hydraulic or mechanical means to keep the material in suspension. Do not tank mix BENLATE SP with lime or alkaline pesticides such as Bordeaux mixture or lime sulfur.

When the use of a spray oil is recommended (for crops such as apples, pecans, and stone fruits), use a nonphytotoxic superiortype spray oil (60 to 70 second viscosity); add oil as last ingredient to spray tank. Consult product labels before applying other pesticides in conjunction with spray oil or immediately before or after an oil application. Follow label instructions for each product used in tank mixtures; observe all precautions and restrictions.

When making a slurry of Benlate SP for seed or seedling treatments or for the transferral of higher concentration Benlate SP solutions to spray tanks, do not hold the slurry for more than 12 hours.



BENLATE SP is a 50% active ingredient wettable powder formulation premeasured in 1 ib (16 oz) polyvinyl alcohol (PVA) water soluble packets. Rates on the label in pounds per acre are equivalent to packets per acre.

CAREFULLY OPEN ENVELOPE AND IMMEDIATELY DROP INNER PACKET INTO SPRAY TANK. THE INNER PACKETS CANNOT BE OPENED UNLESS PERMITTED FOR A SPECIFIC USE BY EPAAPPROVED OR STATE-APPROVED LABELING.

Tank mixtures with liquid fertilizer or solutions containing Boron will affect solubility of the water soluble film. When using fertilizers or Boron containing solutions follow these procedures:

- I. Add the correct amount of BENLATE SP to clean water.
- 2. Be sure the soluble packets are completely dissolved.
- 3. Introduce the fertilizer or Boron containing solutions last.

NUMBER OF ACRES TREATED PER 1 LB. PACKET OF "BENLATE" SP AT VARIOUS USE RATES

RATEPER	ACRE	1 PACKET WILL TREAT
(OUNCES)	(POUNDS)	(ACRES)
2	1/8 (0.125)	8
4	1/4 (0,25)	4
6	3/8 (0.375)	2 2/3
8	1/2 (0.5)	2
12	3/4 (0.75)	1 1/3
16	. 1	1
32	2	1/2
64	4	1/4

For use rates other than those listed in the table above, divide the product use rate (in ounces) into 16 (ounces of product per packet) to determine the number of acres that one packet will treat. For example, if the product use rate is 24 ounces per acre:

<u>16 ounces per packet</u> = 2/3 acres per packet 24 ounces per acre

or alternatively, divide the product use rate(in pounds) into 1 (pound of product per packet) to determine the number of acres that one packet will treat. For example, if the product use rate is 1 1/2 pounds per acre:

<u>1 pound per packet</u> = 2/3 acres per packet 1.5 pounds per acre

Notes

Do not tank mix or alternate BENLATE SP with benzimidazole or thiophanate products such as Mertect! or Topsin².

Do not use on greenhouse crops, including hydroponically grown crops.

Do not use on any container-grown crops.

Do not use on ornamentals.

CHEMIGATION

Apply BENLATE SP only through sprinkler irrigation, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big guá, solid set or hand move irrigation systems only on beans, carrots, celery, cucurbits, strawberries or tomatoes. Do not apply BENLATE SP to any other crops using chemigation unless permitted by supplemental labeling.

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

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

Do not connect an irrigation system 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.

Specific Instructions for Public Water Systems

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must 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.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.



Specific Instructions for Sprinkler Irrigation Systems

- 1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pasticide injection pipeline must contain a
 functional, automatic, quick-closing check valve to
 prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The infigation 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.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Good agitation is required in the injection tank.
- In moving systems, apply specified dosage of BENLATE SP as a continuous injection. In nonmoving systems inject BENLATE SP for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
- 10. Mix the amount of BENLATE SP needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For mannoving systems inject into system for the time established during calibration.
- 11. Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all BENLATE SP is flushed from system.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and common. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator believes drift control and coverage. APPLYING

LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS? See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

Controlling Droplet Size - General Techniques

- Volume—Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- Boom Length The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- Application Height Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY AND WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they effect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion.

Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with

7/16

8/16

altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) / TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

CROP/RATE TABLE

- Crop	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Last Application (days to harvest)
Almonds	Brown Rot Blossom Blight (Monilinia)	48 oz (3 lb)	16 to 24 oz/A 10 gal/A air	Apply at pink bud. If needed, repeat during half to full bloom or 10 days after initial application, whichever comes first.	50
	Do not use BENLATE alone in program with a labeled nonbern control of the co	n a spray progra enzimidazole fun	m. Use only in o gicide.	combination or in an alternating application	
	 Under severe disease conditi full bloom. 	ons or on diseas	se-susceptible va	urieties, make a second application during half to	
Apples	See POME FRUITS.				
Apricots	See STONE FRUITS.				
BEANS Dry Succulent	White Mold (<i>Sclerotinia</i>) Gray Mold (<i>Botrytis</i>)	64 oz (4 lb)	24 to 32 oz/A 25 gal/A 3 gal/A air	Apply from 10% bloom through 7 days after 10% bloom. During severe disease conditions, repeat 7-10 days later. Pacific NW: Apply prior to first petal fall/row fill. Repeat 7 to 10 days later.	Dry/Snap 14 Other Succulent
	May be used through irrigatio For narrow-row (20 to 40") pl repeat 7 to 10 days later. BE	antings of irrigat	ed dry beans in N only partial conti	AT, NE, CO, WY, apply at initial bloom, and rol of white mold.	28
Dry (band spray)	White Mold (Sclerotinia) Gray Mold (Botrytis)	64 oz (4 lb)	32 oz/A 25 gal/A	Apply from 10% bloom through 7 days after 10% bloom.	-
	During severe disease condi- arrangement used at high pre			application 7-10 days later. A 3-nozzle-per-row	, , , , , , , , , , , , , , , , , , ,
Snap _	Fusarium Root Rot	64 oz , 11. (4lb)	15 gal/A	Apply in-furrow at planting.	□ NA**±*
adding to the top	BENLATE does not control F	ythium sp. 🚣 🛥		The state of the s	, 45,44, 5 L

NA = Not Applicable ...

Стор	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Last Application (days to harvest)
Blackberries	See CANEBERRIES.	-		1 3 °	1
Blueberries	Botrytis Blossom Blight Mummy Berry	Before harvest: 48 oz (3 lb) After harvest: 32 oz (2 lb)	16 oz/A 5 gal/A air	Apply at green tip. Repeat at 7 to 10 day intervals through petal fall.	21
	Antifracnose Leaf Spot	Total: 80 oz (5 lb)		Apply when disease appears. Repeat 14 days later. After harvest, make 2 applications at 14 day intervals as needed.	-
	Do not make more than 3 ap	plications at 16 o	z/A before harve	st.	1,
•	 Do not use BENLATE alone program with a labeled nonb Do not use on container-gro 	enzimidazole fun	um. Use only in o gicide.	combination or in an alternating application	
Boysenberries	See CANEBERRIES.				
Broccoli	See BRASSICA.	<u> </u>			
BRASSICA (seed crops) Broccoli Brussels Sprouts Cabbage Chinese Cabbage Cauliflower Collard Kale Kohlrabi Mustard Greens	White Mold (Sclerofinia)	96 oz (6 lb)	32 oz/A 5 gal/A air	Apply at first petal fall. Repeat at 14 day intervals.	NA*
Rutabagas Tumips					
	Add a spreader sticker to ak Do not graze livestock in trea Do not use treated seed or p	ated areas.			
BRASSICA Brussels Sprouts	White Mold (Sclerosinia) Gray Mold (Botrysis) Anthracnose Ring Spot	96 oz (6 lb)	32 oz/A 3 gal/A air	Apply when disease appears. Repeat at 7 day intervals.	7
Ohlassa Oshlass	Do not make more than 3 ap White Mald (Calentaria)	·	``	Apply when discrete annual Devest -1.71-40	1
Chinese Cabbage	White Mold (Sclerofinia)	48 oz (3 lb)	8 oz/A	Apply when disease appears. Repeat at 7 to 10 day intervals.	
10	Do not make more than 6 ap	oplications per cr	op per season.		\$ 86 Q
Brussels Sprouts	See BRASSICA.		د میروند در این از این از از این از ای		
Cabbage	See BRASSICA.	- in		a la maria]

Crop ~	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Iming	Last Application (days to harvest)
CANEBERRIES Blackberries Boysenberries Dewberries Loganberries	Botrytis Powdery Mildew Penicillium Rots	60 oz (3.75 lb)	12 oz/A	Apply at 5 to 10% bloom. Repeat at full bloom, followed by 14 day intervals.	3
Raspberries					
·	Do not make more than 5 ap	plications per cro	op per season.		
Caprifigs (mammae crop)	Endosepsis	4oz (0.25 lb)	4 oz/25 gal	Immerse figs into solution.	NA*
Carrots	White Mold (Sclerotinia)	48 oz (3 lb)	4 to 16 oz/A 5 gal/A air	Apply when disease appears. Repeat at 7 to 10 day intervals.	4
	 May be used through irrigation 	n systems.		`	
Cauliflower	See BRASSICA.		, ~ ~ *		
Celery	Early Blight (<i>Cercospora</i>) Late Blight (<i>Septoria</i>)	48 oz (3 lb)	4 to 8 oz/A 5 gal/A air	Apply when disease appears. Repeat at 7 to 10 day intervals.	7
	May be used through irrigation	on systems.			
Cherries	See STONE FRUITS.				
CITRUS	Scab (<i>Elsinoe</i>)	96 oz (6 lb)	24 to 48 oz/A	For light disease, apply once at 2/3 petal fall. For lieavy disease, apply at pinhead stage. Repeat at 2/3 petal fall.	2
	Greasy Spot (Mycosphaerella)			Apply once from mid-June to mid-July.	
	Fruit Decay (Green or Blue Mold, Stem-end Rot)		16 to 32 oz/A	Apply once from 3 weeks to 2 days before harvest.	
	 Do not use BENLATE alone with copper sprays. Do not graze livestock in treatment 	•	nbination with a la	beled nonbenzimidazole fungicide or alternate	
Collard	See BRASSICA.	aled groves.			
CONIFERS (PINE) Austrian Red Scots	Tip Blight (<i>Diplodia</i>)	48 oz (3 lb)	16 oz/A 100 gal/A	Apply at bud in eak. Repeat 10 to 14 days later, just before needles emerge from sheath; repeat again 10 to 14 days after needle emergence.	NA*
(FIR) Douglas	Swiss Needle Cast (<i>Phaecryptopus</i>) Rhabdodine Needle Cast	80 oz (5 lb)	16 oz/A 50 gal/A	Apply initially in early May. Repeat at 4 week intervals.	
	Add a spreader sticker to im	prove coverage.			
	Use minimum gallonage with Do not graze livestock in treating.		es of sprayers ar	d higher gallonage with conventional sprayers.	
CONIFERS (seedling treatment) Loblolly Longleaf	Fusarium and Rhizoctonia Root Rot		2 oz/50 oz Kaolimite clay, plus enough water to make a slurry	_	۔
Slash					
	or less than 32 °F.	essive drying of a Pythium or Phyto	· .	to temperatures greater than 90 °F.	er er er er er e

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	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Application (days to harvest)
Ducumbers	See CUCURBITS.	;	ع در در برسط آن ع در در برسط آن		
CUCURSITS Cucumber Melon Pumpkin Squash	Anthracnose (Colletotrichum) Powdery Mildew Target Spot (Corynespora)	32 oz 🤃 (2 lb)	ground: 4 to 8 oz/A 50 gal/A air: 8 oz/A 5 gal/A	Apply when disease appears or when runners form. Repeat at 7 to 14 day intervals.	
	To control Target Spot, the 7	-	ecommended for	repeat applications.	
Melons	May be used through irrigation Cephalosporium Wilt	8 oz (0.5 lb)	8 oz/A	Apply in-furrow at planting.	NA*
	Do not use less than 10 gallo	ns of solution pe	er acre.	,	
Curais	Powdery Mildew (Sphaerotheca)	60 ơz (3.75 lb)	12 oz/A	Apply at early bloom. Repeat at full bloom, followed by 7 to 14 day intervals.	21
Dewberries	See CANEBERRIES.	-			
Fir	See CONIFERS.		-		
Gartic	Penicillium Clove Rot	16 oz (1 lb)	16 oz/100 gal	Completely immerse garlic cloves in suspension for at least 5 minutes.	NA*
	Continuously agitate the solu After treatment, remove clove Dry cloves after treatment an	es from solution	and drain over sa		
Grapes	Botrytis Bunch Rot	96 oz (6 lb)	16 to 24 oz/A 15 gal/A air	Apply at first bloom (1 to 5%). Repeat 14 days after first bloom. If conditions favor disease, repeat again 14 days later.	50
	Anthracnose (Elsinoe) Isariopsis Leaf Spot		24 oz/A 15 gal/A air	Apply at 4 to 10" shoot growth. Repeat at 10 to 14 day intervals. After harvest, apply to vines at 4 week intervals.	
	high temperature areas such	as the San Joac in a spray progra	quin and Sacram am. Use only in o	Bunch Rots. These rots occur most frequently in ento Valleys of California. combination or in an alternating application	Market market springer for the first springer
Grapes	Eutypa Dieback	NA*	3.2 oz/gal	Paint or spray on immediately after pruning, before rain, dew, and spores come in contact with fresh wood.	NA*
Kale	See BRASSICA.	1		3	<u> </u>
Kohirabi	See BRASSICA.				
Loganberries	See CANEBERRIES.				1
Mangoes	Anthracnose	96 oz (6 lb)	16 to 32 oz/A	Apply at panicle emergence (2"). Repeat at 7 day intervals through fruit set, followed by 3 to 4 week intervals.	14
	Do not use BENLATE alone program with a labeled nonb			combination or in an alternating application	
Melon	See CUCURBITS.	-	т	,	
Mushrooms (Agaricus)	Verticillium Spot (Dry Bubble)	4oz (0.25 lb)/ 1000 sq 4 ft/crop, 3	16 oz/100 gal (use 12.5 gal per 1000 sq ft bed)	New bed: Apply after casing. Repeat 3 to 4 days before harvest. Production bed: Apply after picking. Repeat 10 days later.	2
-	Do not apply BENLATE during		12	in The continue of the second of the second	, , ,

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Crop -	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Last Application (days to harvest)
Nectarines	See STONE FRUITS.	3			
Onions (seed crop only)	Botrytis	NA*	16 oz/A 🥕	Apply when disease appears. Repeat at 7 day intervals.	NA*
	Do not use treated onions for	food or feed.	الاستانية المستخدية		
Oranges	See CITRUS.				
Papaya	Anthracnose	96 oz	16 to 32 oz/A	Apply at bud expansion. Repeat at 3 to 4 week	14
<u> </u>	Powdery Mildew	(6 lb)		intervals.	
Peaches	- See STONE FRUITS.				
Pears	See POME FRUITS.				
Pecans	Scab (Fusiciadium) Brown Leaf Spot (Cercospora) Downy Spot (Mycosphaerella) Powdery Mildem (Microsphaera) Liverspot Zonate Leaf Spot	48 oz (3 lb)	8 to 16 oz/A 10 gal/A air	Apply at bud break or leaf unfolding. Repeat at nut formation and 3 to 4 week intervals thereafter.	15
	Fungal Leaf Scorch	in a spray progr	ram. Use only in o	combination or in an alternating application	
Pine	Fungal Leaf Scorch	enzimidazole fu e on trees over he tank mix.	ingicide.	combination or in an alternating application	
Pine Pineapple (seed piece)	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbetuse the higher treatment rate. Spray oils may be added to the Do not apply after shuck split.	enzimidazole fu e on trees over he tank mix.	ingicide.	Immerse seed pieces in solution and wet thoroughly, remove and allow to drain.	NA*
Pineapple	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbour use the higher treatment rate. Spray oils may be added to the Do not apply after shuck splith. See CONFERS. Piaeapple Bott Rot.	enzimidazole lu e on trees over he tank mix.	ngicide. 30 ft tall.	Immerse seed pieces in solution and wet	NA*
Pineapple (seed piece)	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbound the bigher treatment rate. Spray oils may be added to the Do not apply after shuck split. See CONFERS. Pineapple Bott Rot (Thielaviopsis paradoxa) Shoot Blight (Batrylis,	enzimidazole fu e on trees over he tank mix. 	20 oz/100 gal 24 to 32 oz/A	Immerse seed pieces in solution and wet thoroughly, remove and allow to drain.	
Pineapple (seed piece) Pistachio	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbound the bigher treatment rate. Spray oils may be added to the Do not apply after shuck split. See CONFERS. Pineapple Bott Rot (Thielaviopsis paradoxa) Shoot Blight (Botrylis, Botryosphaeria)	enzimidazole fue on trees over the tank mix. NA*	20 oz/100 gal 24 to 32 oz/A	Immerse seed pieces in solution and wet thoroughly, remove and allow to drain.	
Pineapple (seed piece) Pistachio Piums POME FRUITS	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbouring with a labeled no	enzimidazole fue on trees over the tank mix. NA* 32 oz (2 lb)	20 oz/100 gal 24 to 32 oz/A 100 gal/A 6 to 12 oz/A ~ 2 to 3 oz/100 gal dilute	Immerse seed pieces in solution and wet thoroughly, remove and allow to drain. Apply at first bloom. Apply at 1/2" green tip. Repeat at 7 to 14 day	NA*
Pineapple (seed piece) Pistachio Piums POME FRUITS	Fungal Leaf Sourch Do not use BENLATE alone program with a labeled nonbound in the higher treatment rate. Spray oils may be added to the Do not apply after shuck splith. See CONFERS. Praeapple Bott Rot (Trielawiopsis paradoxa) Shoot Blight (Botrylis, Botryosphaeria) See STONE FRUITS. Scalo (Vertima) Powdery Mildew (Podosphaera) Fly Speck (Schizothyrium)	enzimidazole fue on trees over the tank mix. NA* 32 oz (2 lb)	20 oz/100 gal 24 to 32 oz/A 100 gal/A 6 to 12 oz/A ~ 2 to 3 oz/100 gal dilute	Immerse seed pieces in solution and wet thoroughly, remove and allow to drain. Apply at first bloom. Apply at 1/2" green tip. Repeat at 7 to 14 day intervals. Apply at petal fall, or when disease threatens.	NA*

1, 3	- 1	Limit	Rate	The state of the s	Last Application
Crop -	Disease	/Acre /Crop	Minimum Gallonage	Application Timing	(days to harvest)
POME FRUITS	Scab (Venturia)	80 oz .	12 to 24 oz/A	Apply at 1/2" green tip. Repeat at 7 to 14 day	
(continued)	Powdery Mildew (Phyllactinia)	(51b)		intervals.	14
Pears	Fowdery fundew (Frightactiona)		The standard of the standard o	Section 1997 Section 1997	1
1	Fly Speck		4,to 6 oz/100	Apply at petal fall or when disease threatens.	
	Sooty Blotch		gal dilute spray	Repeat at 14 to 21 day intervals.	
	Fruit Rots		6 oz/100 gal	Apply once 2 to 3 weeks before harvest.	•
	(Botrytis spp., Penicillium spp.,				ŀ
•	Gloeosporium spp.)				
	Dổ not use BENLATE alone program with a labeled nonbo	in a spray progra enzimidazole fun	ım. Use only in o	combination or in an alternating application ,	
	Under severe disease condit intervals for repeat application		se-susceptible va	arieties, use higher treatment rates and shorter	
-	Spray injury may result if Cap spray. (Apples)	otan ³ is used as	a tank mix partne	er immediately before or closely following an oil	
	Do not graze livestock in treat	ited orchards.	·		
Prunes	See STONE FRUITS.				
Pumpkin	See CUCURBITS.				
Raspberries	See CANEBERRIES.				
Rutabagas	See BRASSICA.				
SEED CROPS	Powdery Mildew	NA*	16 oz/A	Apply when disease appears. Repeat at 7 to 14	NA*
(grown for seed)		ĺ	5 gal/A air	day intervals.	
Anise Brussels Sprouts			1		
Cabbage					1
Cardoon Cauliflower			-		
Chickory					Ì
Com Cucumbers		İ	•	1	
Dill]			j
Melons			1		
Peas Peppers, Bell	•				1
Squash		<u> </u>]
	Do not use treated seed or p See CUCURBITS.	lant parts for foo	d or feed.		7
Squash	I SAA CIRCIERIUS				<u> </u>
	<u> </u>				
STONE FRUIT	Brown Rot Blossom Blight	64 oz (4 lb)	24 to 32 oz/A	Apply at early bloom before infection occurs.	3
STONE FRUIT Apricots	Brown Rot Blossom Blight (Monilinia)	64 oz (4 lb)	24 to 32 oz/A 10 gal/A air	Apricots: early red bud	3
STONE FRUIT Apricots Nectarines	Brown Rot Blossom Blight		ł	Apricots: early red bud Peaches/Nectarines: pink bud	3
STONE FRUIT Apricots Nectarines Peaches	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip	3
STONE FRUIT Apricots Nectarines Peaches Plums	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight:	3
STONE FRUIT Apricots Nectarines Peaches	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later.	3
Apricots Nectarines Peaches Plums	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck	3
Apricots Nectarines Peaches Plums	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole	3
Apricots Nectarines Peaches Plums	Brown Rot Blossom Blight (Monilinia) Powdery Mildew		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide.	3
STONE FRUIT Apricots Nectarines Peaches Plums	Brown Rot Blossom Blight (Monilinia)		ł	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole	
Apricots Nectarines Peaches Plums Prunes	Brown Rot Blossom Blight (Monilinia) Powdery Mildew		10 gal/A air	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide. Apply 3 to 21 days before harvest. Use	
Apricots Nectarines Peaches Plums Prunes Plums Prunes	Brown Rot Blossom Blight (Monilinia) Powdery Mildew Fruit Brown Rot (Monilinia) Black Knot (Dibotryon)	(4 lb)	10 gal/A air 12 to 24 oz/A 10 gal/A air	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide. Apply 3 to 21 days before harvest. Use additional nonbenzimidazole sprays as needed. Apply at early bloom (green tip). Repeat at 7 to 10 day intervals through mid-June.	
Apricots Nectarines Peaches Plums Prunes	Brown Rot Blossom Blight (Monilinia) Powdery Mildew Fruit Brown Rot (Monilinia)		10 gal/A air 12 to 24 oz/A 10 gal/A air 16 oz/6 gal wound	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide. Apply 3 to 21 days before harvest. Use additional nonbenzimidazole sprays as needed. Apply at early bloom (green tip). Repeat at	
Apricots Nectarines Peaches Plums Prunes Plums Prunes	Brown Rot Blossom Blight (Monilinia) Powdery Mildew Fruit Brown Rot (Monilinia) Black Knot (Dibotryon)	(4 lb)	10 gal/A air 12 to 24 oz/A 10 gal/A air 16 oz/6 gal	Apricots: early red bud Peaches/Nectarines: pink bud Plums/Prunes: green tip Blossom Blight: Repeat at full bloom or 10 days later. Powdery Mildew or Peach Scab: Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide. Apply 3 to 21 days before harvest. Use additional nonbenzimidazole sprays as needed. Apply at early bloom (green ap). Repeat at 7 to 10 day intervals through mid-June. As a wound dressing, apply to pruned or cut	

Стор	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Last Application (days to harvest)
STONE FRUIT (continued) Cherries	Brown Rot Blossom Blight (Moniliaia) Powdery Mildew Cherry Leaf Spot (Mycosphaerella)	96 oz (6 lb)	24 to 32 oz/A 10 gal/A air	Apply at early popcorn stage. <u>Blossom Blight</u> Repeat at full bloom or 10 days later. <u>Powdery Mildew:</u> Repeat at full bloom or 10 days later. At shuck fall and 14 days later use a nonbenzimidazole fungicide. <u>Cherry Leaf Spot:</u> Repeat at 10 to 14 day intervals; make one	,
	Fruit Brown Rot			application 2 to 3 weeks after harvest. Apply 3 to 21 days before harvest.	1
-4	program with a labeled nonb For aerial application, fly ove	enzimidazole fur er every row or co Peach Leaf Curl,	ngicide. enter.	combination or in an alternating application an alternating application with a sometime and alternating application an alternating application or fruit rots caused by Rhizopus spp.	
Strawberries	Powdery Mildew Leaf Scorch Leaf Blight Mycosphaerella Leaf Spot Anthracnose	80 oz (5 lb)	8 to 16 oz/A 10 gal/A air 16 oz/A	Apply at 16 oz/A at 10% bloom and at full bloom. Repeat at 8 oz/A at 10 to 14 day intervals Apply when plants are established. Repeat at 7 day intervals.	1
	Do not use BENLATE alone program with a labeled nonb May be used through irrigation.	enzimidazole fui		combination or in an afternating application	
Tomatoes	Gray Mold (Botrytis) Leaf Mold (Cladosporium) White Mold (Sclerotinia) Cercospora Leaf Spot Phoma Leaf Spot Target Spot (Corynespora)	80 oz (5 lb)	8 to 16 oz/A 50 gal/A 5 gal/A air	Apply when disease appears. Repeat at 7 to 14 day intervals.	1
	Do not use BENLATE alone program with a labeled nonb May be used through irrigative.	enzimidazole fu	am. Use only in ongicide.	combination or in an alternating application	
Turnips and Turnip Greens	- See BRASSICA.				
Wineat	Strawbreaker Foot Rot (Pseudocercosporella)	48 oz (3 lb)	12 to 32 oz/A 15 gal/A 5 gal/A air	Apply once at full tillering but before elongation.	21
	Where resistance is suspect nonbenzimidazole fungicide. Do not allow livestock to gra		-	BENLATE alone. Use only in combination with a	
	Powdery Mildew (Erysiphe) Leaf Rust (Puccinia) Helminthosporium Leaf Blight	48 oz (3 lb)	4 to 8 oz/A 15 gal/A 5 gal/A air	Apply at boot stage to early heading. Repeat 14 days later.	
(continued on next page)	For effective control of these keep the flag leaf free of dis-	diseases, tank ease. Do not use	mix with 16 to 32	oz/A of MANZATE 200. Time the applications to	man was ser in states

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Crop	Disease	Limit /Acre /Crop	Rate, Minimum Gallonage	Application Timing	Last Application (days to harvest)
Wheat (continued)	Septoria Leaf Glume Blotch Powdery Mildew (<i>Erysiphe</i>) Leaf Rust	48 oz (3 lb)	4 oz/A 15 gal/A 5 gal/A air	Apply at boot stage. Repeat 14 days later.	21
	 For effective control of these diseases, tank mix with 2 to 4 ozlA of Bayleton⁴. Time the applications to keep the flag leaf free of disease. 				,

SEED TREATMENT TABLE

Crop	Disease	Rate	Further Use Information
BRASSICA Broccoli Brussels Sprouts Cabbage Chinese Cabbage Cauliflower Collard Kale Kohlrabi Mustard Greens Rape (Canola) Rutabagas Turnips	Seed-borne Blackleg (<i>Phoma</i>)	8 oz/100 lb seed in 1/2 to 3 pt water	 Make a slurry of BENLATE in sufficient water to uniformly treat seed. An EPA-approved dye that imparts an unnatural color to the treated seed must be used with the treatment. Use a slurry-type treater specifically designed and approved for this purpose. Allow seeds to dry before planting; seeds may be planted any time after being well cured. Label treated seed as follows: "Do not use treated seed for food, feed, or oil purposes. This seed treated with BENLATE SP Funglicide."
Spinach	Fusarium Wilt	16 to 32 oz/100 lb seed in 1/2 to 2 pt water	Additionally, for wheat, barley, oat or rye, label treated seed as follows: "Do not allow livestock to graze on plants grown from treated wheat, barley, oat or rye seed."
Wheat, Barley, Oat, Rye	Bunt and Common Bunt Flag Smut, Loose Smut, and Covered Smut. Do not allow livestock to grad	1 to 2 oz/bushel seed ze on plants grown from treated seed.	

STORAGE AND DISPOSAL

Do not contaminate water, other pesticides, fertilizer, food or feed by storage or disposal.

STORAGE: Never allow "Benlate" SP to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of "Benlate" SP as a fungicide. Keep container tightly closed when not in use. Store product in original container only.

PRODUCT DISPOSAL: Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty contents of envelope into application equipment. Then dispose of empty envelope in a sanitary landfill, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

- 1 Registered trademark of Merck & Company.
- 2 Registered trademark of Nippon Soda Company, Japan.
- 3 Registered trademark of Drexel Chemical Co.
- 4 Registered trademark of Bayer AG, Germany.

Attention: This product contains benomyl, a chemical known to the State of California to cause birth defects or other reproductive harm.

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