THE PROPERTY OF

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ralph P. Burton ISK BIOTECH CORPORATION P. O. Box 8000 Mentor, OH 44061

Subject:

Label Amendment Submission of 09/07/93 in Response to PR Notice 93-7

EPA Reg. No. 50534-8

BRAVO 500

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A. Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

RALPH BURTON
ISK BIOTECH CORPORATION

Comments for: EPA REG. NO. 50534-8 BRAVO 500

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Delete the crossed out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

Net Contents:

Bravo® 500 Agricultural Fungicide

Contains 4.17 Pounds Chlorothalonil Per Gallon (500 grams per liter)

Active Ingredient: Chlorothalonil (tetrachloroisophthalonitrile)

40.4%

Inert Ingredients:

59.6%

Total:

100.0%

Keep Out of Reach of Children WARNING-AVISO

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

See side panel for additional precautionary statements.

Precaucion al Usuario:

Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

ISK Biotech Corporation

5966 Heisley Road P.O. Box 8000 Mentor, Ohio 44061-8000

EPA Reg. No. 50534-8 EPA Est. No. 50534-TX-01

3301-4060-9001-9308

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 1 7 1994

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

BRAVO is a registered trademark of ISK Biotech Corporation.

Bravo® 500

A Broad-Spectrum Agricultural Fungicide Read entire label before using this product.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer.

DO NOT get in eyes. Wear goggles or face shield when handling this product. Wash thoroughly with seap and water after handling. Remove contaminated clothing and wash before reuse. Avoid prolonged contact with skin. Avoid breathing spray mist. DO NOT take internally.

Note to User: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reaction should contact a physician.

DO NOT apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

First Aid:

In case of contact with eyes, immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eyes immediately.

Wash-exposed areas of skin with soap and warm water after handling or using.

Note to Physician: Persons having temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eye wear.

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- * Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- * Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Run off from treated areas may be hazardous to aquatic organisms in neighboring areas. DONOT apply directly to water, 10 areas where surface water is present or to intertidal areas below the mean high water mark. DONOT contaminate water when disposing of equipment wash waters. DONOT apply when weather conditions favor drift from treated areas.

APPLY ONLY TO AREAS SPECIFIED ON LABEL.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsisten? with its labeling.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under 'Agricultural Use Requirements" in the Directions for Use section for information about this standard.

SEE ATTACHED FOLDER FOR DIRECTIONS FOR USE.

STORAGE AND DISPOSAL

DONOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Storage: Store in a cool place. Protect from excessive heat.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.

Container Disposal: DONOT reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary

landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. SELLER MAKES NOOTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NOAGENT OF SELLER IS AUTHORIZED TODO In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this company, including, but not limited to, incompatibility with products other than those set forth in the Directions for Use, weather conditions, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural practice.

BEST AVAILABLE COM

1;

(INSERT FOLDER)

1 .

Bravo® 500

Agricultural Fungicide

Contains 4.17 Pounds Chlorothalonil Per Gallon

(500 grams per liter)

Active Ingredient: Chlorothalonil

(tetrachloroisophthalonitrile)

40.4%

Inert Ingredients:

59.6%

Total:

100.0%

Keep Out of Reach of Children

WARNING - AVISO

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

See side panel for additional precautionary statements.

Precaucion-al Usuario:

Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

ISK Biotech Corporation

5966 Heisley Road

P.O. Box 8000

Mentor, Ohio 44061-8000

EPAReg. No. 50534-8

EPAEst. No. 50534-TX-01

Printed in U.S.A. 3301-0000-8003-9308

BRAVO is a registered trademark of ISK Biotech Corporation.

Bravo® 500

A Broad Spectrum
Agricultural Fungicide
Read entire label carefully and use only as directed.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals WARNING

Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer.

DO NOT get in eyes. Wear goggles or face shield when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid prolonged contact with skin. Avoid breathing spray mist. DO NOT take internally.

Note to User: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reaction should contact a physician.

DO NOT apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

First Aid:

In case of contact with eyes, immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eyes immediately.

Wash exposed areas of skin-with soap and warm water after handling or using.

Note to Physician: Persons having a temporary allergic reaction respond to treatment with anthistamines or steroid creams and/or systemic steroids.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eye wear.

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- * Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- * Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwaters. DO NOT apply when weather conditions favor drift from treated areas.

APPLY ONLY TO AREAS SPECIFIED ON LABEL.

DIRECTIONS FOR USE

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

Note to User: Wear goggles or face shield when handling this product. Wear long sleeve shirt, long pants, and gloves while mixing, loading and applying this product.

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 48 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, shoes plus socks, and protective eyewear.

11/ 1

BRAVO 500 is an excellent fungicide when used according to label directions for control of a broad spectrum of plant diseases.

BRAVO 500 can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control.

DO NOT use on greenhouse grown crops.

DO NOT combine BRAVO 500 in the spray tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination physically compatible, effective and noninjurious under your conditions of use. DO NOT combine BRAVO 500 with Dipel 4L, Triton AG-98, or Triton B-1956 as phytotoxicity may result from the combination when applied to some crops on this label.

Dipel is a registered trademark of Abbott Laboratories. Triton AG-98 and Triton B-1956 are trademarks of Rohm and Haas Company.

Note: Slowly invert container several times to assure uniform mixture.

Dosage rates on this label indicate pints of BRAVO 500 per acre, unless otherwise stated. Under conditions favoring disease development the high rate specified and shortest application interval should be used.

The required amount of BRAVO 500 should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount of BRAVO 500 in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

Reentry:

Note to User: DO NOT enter treated area to perform hand labor within 24 hours of application unless protective clothing is worn.

Because certain states may require more restrictive reentry intervals for various erops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Oral and written warnings must include the following information: "WARNING. Area treated with BRAVO 500 on (date of application). DO NOT enter without appropriate protective clothing for 24 hours. In case of accidental exposure, wash exposed area with plenty of water and get medical attention. For further information see 'Precautionary Statements' on the label."

Field and Row Crops:

Apply BRAVO 500 in sufficient water to obtain adequate coverage of foliage. Gallonage to be used will vary with crop and amount of plant growth. Spray volume usually will range from 20 to 150 gallons per acre (200 to 1400 liters per hectare) for dilute sprays and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop. Application through sprinkler irrigation systems is not recommended unless specific directions are given for a crop. See application and calibration instruction below.

Application and Calibration Techniques for Sprinkler Irrigation

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set and portable (wheel move, side roll, end tow, or hand move) irrigation system(s). 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 apply this product through irrigation systems connected to a public water system. '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 per year. Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quickclosing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

Always inject BRAVO 500 into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

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 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.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

BRAVO 500 may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

A. Center Pivot, Motorized Lateral Move and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of being fitted with a

10

system interlock and capable of injection at pressures approximately 2 – 3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of BRAVO 500 for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until BRAVO 500 has been cleared from last sprinkler head.

B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

with stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of BRAVO 500 for acreage to be

covered with water so that the total mixture of BRAVO 500 plus water in the injection tank is equal to the quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. BRAVO 500 can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until BRAVO 500 has been cleared from last sprinkler head.

Metric Conversion Guide 2-1/8 pints equals 1.0 liter 4-1/4 pints equals 2.0 liters

CROP	DISEASES	rate per acre	APPLICATION DIRECTIONS
Bean (Snap)	Rust 2 to 4-1/4 pts		Use in sufficient water to obtain adequate coverage. Begin
	Botrytis blight (gray mold)	4-1/4 pts	applications during early bloom stage or when disease first threaters and repeat at weokly intervals or as necessary to maintain control. DO NOT apply within 7 days of harvest. DO NOT graze treated areas or feed treated plant parts to livestock.
Beans (Dry) Havy, Pinto, Kidney, Lima, Blackeye	Rust, Anthracnose, Downy miklew, Cercospora leaf spot (blackeye only)	2 to 3 pts	Use in sufficient water to obtain adequate coverage. Begin applica- tions during early bloom stage and repeat at 7 to 10 day intervals. For use only on beans harvested dry with pods removed. DO NOT apply within 6 weeks before harvest. DO NOT allow livestock to graze in treated areas or feed treated plant parts to livestock.
Cabbage, Chinese Cabbage (tight-headed varieties only) Cauliflower, Broccoll,	Alternaria leaf spot. Downy mildew	2-1/4 pts	Use in sufficient water to obtain adequate coverage. Begin applications after transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development. Repent at 7 to 10 day intervals or as necessary to maintain control. DO NOT apply within 7 days of harvest to Chinese cabbage or Chinese broccoil.
Chinese Broccoli, Brussels Sprouts	Ring spot (California only)	2-3/4 pts	For field-seeded brussels sprouts, begin applications at time of early aprout development or when conditions tavor disease development. Repeat at 7 to 10 day intervals or as necessary to maintain control.
Carrol	Cercospora (Early) blight, Alternaria (Late) blight	2-1/4 to 2-3/4 pts	Use in sufficient water to obtain adequate coverage. Start applica- tions when disease threatens and repeat at 7 to 10 day intervals or as necessary to maintain control.
			BRAVO 500 may be applied through sprinkler imgation equipment (solid set, portable wheel move or center pivot systems only). See calibration directions preceding this section.
Calary	Cercospora (Early) blight, Septorta (Late) blight Basal stalk rot	1-1/2 to 2-1/8 pts sami-weekly or 3 to 4-1/4 pts weekly	Use 1-1/2 to 2-1/8 pts per acre on a 3 to 5 day spray schedule or 3 to 4-1/4 pts per acre on a 7 day schedule. Start applications when transplants are set in the field. Apply in sufficient water to obtain adequate coverage.
	(Animoctonia solani) Pink rat (Suparessian)	4·1/4 pts	BRAVO 500 may be applied through sprinkler impation equipment (solid set, portable wheel move or center pivot systems only). See calibration directions preceding this section, DO NOT apply within 7 days of harvest.
	Early blight Late blight	2-1/4 to 2-3/4 pts/100 gal.	For celery seedbeds, apply 125 gallons per acre hvice weekly or as needed to maintain control. Start applications shortly after crop emergence. Use the higher rate under severe disease conditions.
Corn (sweet), Corn grown for seed	Helminthosportum leaf blights, Rust	1-1/8 to 2-3/4 pts	Use in sufficient water to obtain adequate coverage. Begin applications when conditions lavor disease development and repeat at 4 to 7 day intervals or as required to maintain control. Under severe disease conditions, use 2-1/4 to 2-3/4 pts per scrs. DO NOT apply within 14 days of harvest. DO NOT apply to sweet corn to be processed. DO NOT allow livestock to graze in treated fields. DO NOT enable treated corn or use as livestock forage.

CROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTION	
Cranberry	Fruit rols, Lophodermlum leal/twig blight	6 to 10 gts	Apply at early bloom and in servere disease conditions ute. DO NOT apply BRAID within 50 days before harv or allow release of irrigatio following application.	
			BRAVO 500 may be applied Use 300 gallons of water p See calibration directions p	
Cucurbits: Cucumber, Cantaloupe,	Anthracnose, Downy mildew, Target spot	2-1/4 to 2-3/4 pts	Use in sufficient water to o applications when plants a conditions are favorable to applications at 7 day interval. shorten spray interval.	
Muskmelon, Honeydew	Cercospora leaf spot. Gummy stem blight	2-3/4 to 4-1/4 pts		
meion, Watermeion, Squash, Pumpkin	(black rot), Alternarie leaf blight, Scab,		BRAVO 500 may be applied (solid set, portable wheel n calibration directions prece	
г и прим	Powdery mildew (Sphaerotheca only)		Note: DO NOT combine BR any material other than was meions. DO NOT spray was conditions are conducive is watermeions within 21 day	
	Cucumber belly rot (Rhizoctonia solani)	12 pts	Use BRAVO 500 in zufficie Make a single application v be applied through sprinde	
Grasses Green for Seed	Stem rust, Leaf rust, Stripe rust, Septoria leaf spot, Gluma biotich, Bipolaris and Drachslera leaf spois	1-1/2 to 2 pts	Use in sufficient water to of applications during stem of development. Re-apply at 6 applications at 14 day internativest. DO NOT allow their treated plant parts to livest	
	Selenophoma (eyespot)	1-1/2 to 3 pts		
Mirel	Flust, Septorta tenf apot	2 pts	Use in sufficient water to o 150 gallons per acre for dil for concentrate ground and when emerging plants are 7 to 10 day intervals or as apply more than 3 times pe of harvest. DO NOT lead for fields to livestock, Based or 500 on mint is restricted to	

CROP	DISEASE3	RATE PER ACRE	APPLICATION	DIRECTIONS		
Onion (dry bulb)	Botrytis leaf blight/ blast, Botrytis neck rot (suppression),	1-1/7 to 2-3/4 pts	Apply in sufficient water to obtain thorough coverage of tops. BRAVO 500 is recommended for use with disease monitoring systems which adjust lungicide rates and frequency of application according to disease hazard. Apply as follows:			
	Purple blotch			Low Disease Hazard & Prior to Infection	Low Disease Hazard & Some Disease Present	High Disease Hazard
			Rate per Acre:	1-1/2 pt.	2 pts.	3 pls.
			Frequency:	10 days	7 to 10 days	7 days
			minimum of the	ree weekly applica 500 per acre, is r	ytis spp.) during sto tions prior to lifting, ecommended, DO N	using 2 to 3
Onton (green bunching), Leek, Shallot, Garlis, Onton grown for seed	Botrytis leaf blight/ blast, Purple blotch, Downy mildew (suppression)	2 to 4-1/4 pts	Use in sufficient water to obtain thorough coverage of tops. Beg applications prior to favorable infection periods, and repeat at 7 10 day intervals for as long as conditions favor disease. Use the high rate and a 7 day schedule of applications when heavy dew rain peraist. DO NOT apply within 7 days of harvest on garlic. DO NOT apply more than 3 times per season or within 14 days of harvest on green bunching onlors, leeks or shallots. If additional disease control is needed before harvest, use another registered fungicide.		d repeat at 7 to lase. Use the I heavy dew or on garlic. In 14 days of If additional	
Papaya	Alternaria huit spot, Anthracnose, Stem end rot	3 to 5-3/4 pts	Apply with ground equipment only, in sufficient water to obtain adequate coverage of trust and leaves. Begin treatment when conditions tavor development of disease and continue treatments a 14 day intervals until weather conditions to longer favor disease development. DO NOT graze livestock in treated area or leed processing by-products to livestock.			it when a treatments at yor disease
Paranip	Alternaria leaf spof. Downy mildew, Anthracnose, Botrytis blight (gray mold), Bottom rol (Rhizoctonia)	2 to 3 µbs	Apply in sufficient water to obtain adequate coverage. Make the application at the first sign of disease or when conditions are to able for infection. Continue applications on a 7 to 10 day sched DO NOT apply more than 4 times per sesson or within 10 days harvest. DO NOT feed treated plant parts to livestock.		ons are favor- tay schedule. In 10 days of	
Passion Fruit (Hawaii only)	Alternarie fruit and leaf spot, (passion fruit brown spot)	2-3/4 pts	Apply with ground equipment in sufficient water to obtain adeq coverage of fruit and leaves. Begin treatment when fruit spots appear (April to July) and continue treatments at 14 day intervauntil weather conditions no longer favor disease development. NOT graze in treated area or feed vines or processing by-produitivestock used for food.			uit spots ay intervals lopment, DO

CROP	DISEASES	RATE PER ACRE	APPLICATION DIFFECTIONS		
Peanut	Cercospora (garly) leafspot Cercosporidium (late) leafspot Rusi.	1-1/2 to 2-1/8 pts 2-1/8 pts	Apply in sufficient water for adequate coverage when leaf wetness first occurs or 30 to 40 days after planting; repeat at 10 to 14 day intervals. When conditions tavor late featspot or when rust or web blotch occur, apply 2-1/8 pints per acre at 10 day intervals for the remainder of the season, DO NOT apply with 14 days of harvest.		
	Web blotch	t works	DO NOT allow livestock to graze in treated areas. DO NOT feed hay or threshings from treated fields to livestock.		
			BRAVO 500 may be applied through sprinkler irrigation equipment Use 2-1/8 pints per acre in solid set, portable wheel move, center pivot or travelling gun sprinkler irrigation equip-ment. See calibrati directions preceding this section.		
Potało	Late blight, Early blight, Botrytis vine rot	1 pt — then —	Apply as a banded treatment directed over the tollage, beginning when vines are first exposed and leaf wetness occurs. Repeat applications at 7 to 10 day intervals until vines close, then increase rate as described below.		
		1-1/2 to 2-1/8 gts/A	In addition to the early-season application above, as vines close between rows increase water carrier volume to cover the denser canopy and begin broadcast application patterns. Continue applica- tions at 7 to 10 day intervals. Use the highest registered rate weekly when disease conditions are severs.		
			BRAVO 500 may be applied through sprinkler irrigation equipment (solid set, portable wheel move, center pivot or motorized lateral move strains only). DO NOT exceed a 10 day interval between applications when using this technique. Follow calibration and application directions preceding this section.		
Soybean Determinate (Southern) Varieties	Anthracnose, Disporthe pod and stern blight, Frogeye leaf spot (Cercospora scilina), Purple seed stain, Cercospora leaf blight (Cercospora killuchii), Septoria brown spot		Apply in sufficient water to obtain complete coverage, using at least tive gallons of water per acre for serful application. Use the three application program in areas having a history of moderate to severe disease intensity, BRAVO 500 may be applied through sprinkle; irrigation equipment, Brow application and calibration directions preseding this section. DO NOT exceed total of 3 applications per season. DO NOT apply within 6 weeks of harvest. DO NOT feed treated parts to itvestock or allow grazing in treated fields.		
		2.0 to 3-1/2 pts	Two application program — Make the first application at early pod- set (R3 stage, when majority of pods are 1/8 to 3/8 inch in length) and the second at beginning seed formation (R5) which occurs about 14 days later.		
		1-1/2 to 2-3/4 pts	Three application program — Make the first application at the beginning of flowering (R1), the second at early pod set (R3) and the third at beginning of seed formation (R5).		
	Stem canker (Diaporthe phaseolorum var. caulivora)	1-1/2 pts	Apply in 10 to 20 gallons of water per acre, as a band treatment directing spray to provide coverage of entire plant. Make the first application at time of emergence of the second trifoliate leaves (V2). If conditions tever stem canker disease make a second and a third application. Make all applications at 10 to 14 day intervals.		

CROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTIONS		
Soybean Indelarminate (Nerthern) Varieties	Anthracnose, Diaporthe pod and stem blight, Fropeye teal spot (Cercospora soyna), Purple seed stale, Cercospora kal blight (Cercospora kikuchii),		Apply in sufficient water to obtain complete coverage, using at least five gallons of water per acre for aeral application. Use the three application program in areas having a history of moderate to severe disease intensity. BRANO 500 may be applied through sprinkler impation evelument. Follow application and calibration directions preceding this section. DO NOT exceed total of 3 applications per season. DO NOT apply within 8 weeks of hervest. DO NOT lead soybean hay or threshings from treated fields to tivestock.		
	Septoria brown spot	2.0 to 3-1/2 pts	Two application program — Make the first application when largest pools are 1 to 1-1/2 inches in length and make the second application 14 days later. BRAVO 500 may be co-applied with Benalse* 50WP as a tank into ter disease control in indeterminate (northern) soybeans. Use 1-1/2 pts of BRAVO 500 plus 8 ounces of Benalse 50WP per acre. Make the first application when pools near the top of plants are 1/2 to 1 inch in length and a second application 14 days later.		
		1-1/2 to 2-3/4 pts	Three application program — Make the first application one week after first flowering and continue applications at 14 day intervals.		
		*Beniate is a registered tradement of E.I. DuPont de Nemeurs and Ce., Inc.			
Temele	FOLIAGE (apply every 7-10 days): Early blight, Late blight, Gray leaf spot, Gray leaf mold, Septonia leaf spot, Target spot	2 to 3 pts	Apply in sufficient water to obtain adequate coverage, Begin applications when dew or rain occur and disease threatens. Use the highest rate and shortest interval specified when disease conditions are severe. BRANO 500 may be combined in the spray tank with EPA-registered posticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper menulacturer's label for specific instructions, precautions and limitations prior to mixing with		
	FRUIT (apply every 7-14 days beginning at fruit set). Anthrachose, Atternants insit not (black mold), Rhizoctonis fruit not	3 to 4 ets	8RAVO 500, DO NOT use with Copper-Count* N in concentrated spray suspensions.		
			BRAVO 500 may be applied through sprinkler irrigation equipment (solid set or portable wheel move systems only). See calibration directions preceding this section.		
	Botrytis gray mold, Late blight fruit rot		* Copper-Count is a registered trademark of Mineral Research & Development Corporation.		

Tree and Orchard Crops

Apply BRAVO 500 in sufficient water and with proper calibration to obtain uniform coverage of free canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not leasible, BRAVO 500 may be applied with aircraft using at least 20 gallons per acre. When concentrate sprays are used or when treating non-bearing or immature trees, the lower rate of BRAVO 500 listed may be used. DO NOT allow livestock to graze in treated areas. The following spray volumes are recommended as gallons of spray per acre:

CROP	SPRAY VOLUME (Gallens per Acre)		
Puach, Hectorine, Apricot, Tart Cherry, Plum, Prune	20 (concentrate) 10 300 (full dilute) 20 (concentrate) 10 400 (full dilute)		
Sweet Cherry			
Conitors	Dilute	Concentrate	
Forest stands	Mot used 10 to 20 (aircraft)		
Christmas troce	100	10 to 50 (alreral) or pround equipment	
Nursery bods	100	5 to 10 (ground equipment only)	

CROP	DISEASES	BRAVO 500 ACRE	HATE PER 100 GAL	APPLICATION DIRECTIONS
Peach, Nectarine, Apricot, Cherry, Plum, Prune	Leaf curl, Coryneum blight (shothole)	4-1/2 to 6 pts	1-1/2 to 2 pts	For best control of both discases apply at leaf fall in late autumn, using sufficient water and proper sprayer calibration to obtain uniform coverage. When conditions lavor high disease levels use the high rate of application and apply once or twice more in mid to late winter before budswell. If the leaf fall application is not practical, application of BRAVO 500 for control of leaf curl may be made at any time prior to budswell the following spring. Where Coryneum blight (shothole) occurs, also apply at budbreak to protect newly emerging leaves and all shuck split to prevent fruit intections.
	Brown rot blossom blight Lacy (russet) scab (plum/prune)	4-1/2 to 8 pts	1-1/2 to 2 pts	Use 6 to 8 pints per acre on trees tailer than 20 feet and 4-1/2 to 6 pints per acre on smaller trees. Make one application at popcom (pink, red or early white bud) and a second application at full bloom. If weather conditions tavor disease development, make an additional application at petal fall.
	Cherry leaf spot; Peach, Nectarine, Apricol scalb	4-1/2 tu 6 pts	1-1/2 to 2 pts	In actition to the bloom application listed above, make one application at shuck split. OO NOT apply BRAVO 500 after shuck split and before harvest. If additional disease control is needed before harvest, use another registered fungicide.
				For control of cherry leaf spot after harvest, make one application to follage within 7 days after truit is removed, in orchards with a history of high leaf spot incidence, make a second application 10-14 days later.
	Swiss needlecast	4 to 8 pts	4 to 5 pts	Single application technique: in Christmas plantations or forest stands make one application in the spring when new shoot growth is 1/2 to 2 inches in length.
	Scieroderris canker (pines), Swiss needlecast	2 to 4 pts	2 to 4 pts	Make the first application in spring when new shoot growth is 1/2 to 2 inches in length. Make additional applications at 3 to 4 week inter- vals until conditions no longer favor disease development. For use in
	Strococcus tip blight	3 to 5 pts	3 to 5 pts	nursery beds, apply the highest rate specified on a 3 week schedule.
	Rhizosphaera needlecast (spruces), Scirrhia brown spot (pines)	8 pts	8 pts	

Volumetric rates to be used only with full dilute spray volume specified on this tabel for tree and orchard crops.

ROP	DISEASES	BRAVO SOO ACRE	RATE PER 100 GAL*	APPLICATION DIRECTIONS
Canifers	Cyclaneusma and Lopnodermium needle- casts (pines)	4 to 8 pts	4 to 8 pts	Apply in early spring prior to budbreak. Repeat application approximately 6 to 8 week intervals, until spore release ce late tall. Apply monthly during periods of trequent rainfall, where Lophu-Jermium infections occur during dormancy (Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle
	Rhabdockine neeulecast (Douglas-Rr)	2 to 4 pts	? to 4 pts	Apply at budbreak and repeat at 3 to 4 week Intervals until are fully elongated and conditions no longer tavor disease ment. In plantations of mixed provenance, or when irregul budbreak occurs, apply weekly until all trees have broken i every 3 to 4 weeks as specified above. In nursery beds, us rate on a 3 week schedule.
	Botrytis seedling blight, Phoma twig blight	2 to 4 pts	2 to 4 pts	Begin applications in nursery beds when seedlings are 4 in and when cool, mokst conditions favor disease developme additional applications at 7 to 14 day intervals as long as o tavorable conditions persist.

^{*}Volumetric rates to be used only with full dilute spray volume specified on this label for tree and orchard crops.

Container Disposal: DO NOT reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this company, including, but not limited to, incompatibility with products other than those set forth in the Directions for Use, weather conditions, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural practice.