



FERMENTA™
PLANT PROTECTION

Fermenta Plant Protection Company
7528 Auburn Road P.O. Box 348
Painesville, Ohio 44077

lot 6
per 21
50534-188
BRAVO^R 720

Supplemental Labeling

ACCEPTED

MAY 12 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under
EPA Reg. No. 50534-188

SUPPLEMENTAL DIRECTIONS FOR THE USE OF

BRAVO^R 720
(EPA Reg. No. 50534-188)

For Control of Diseases on Bean (Snap), Cranberry, Cucurbits, Grasses Grown in Seed, Onion (dry bulb), Parsnip, Tomato and Conifers.

Directions for Use

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

Dosage rates on this label indicate pints of **Bravo 720** per acre, unless otherwise stated. Under conditions favoring disease development the high rate specified and shortest application interval should be used.

FIELD AND ROW CROPS:

Apply **Bravo 720** 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.

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 except in writing with a specific reference to this warranty. 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.

CROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTIONS
Bean (Snap)	Rust	1 3/8 to 3 pts.	Use in sufficient water to obtain adequate applications during early bloom stage or threatens and repeat at weekly intervals to maintain control. DO NOT apply within 14 days of harvest. DO NOT graze treated areas or feed treated livestock.
	Botrytis blight (gray mold)	3 pts.	
Cranberry	Fruit rots, Lophodermium leaf/twig blight	4 to 7 pts.	Apply at early bloom and repeat at 10 to 14 day intervals. Under severe disease conditions use the product on a 10 day schedule. Do Not apply Bravo 720 more than 4 times per season, or within 50 days before harvest. Do not apply to bogs when flooded or allow runoff of water from bogs for at least 3 days following application. Bravo 720 may be applied through sprinkler or irrigation equipment. Use 300 gallons of water per acre for set systems only. See calibration directions in the product section.

Cucurbits: Cucumber, Cantaloupe, Muskmelon, Honeydew melon, Watermelon, Squash, Pumpkin	Anthracnose,	1 1/2 to	Use in sufficient water to obtain adequate coverage. Begin applications when plants are in first true leaf stage or when conditions are favorable for disease development. Repeat applications at 7 day intervals. Under severe disease conditions, shorten spray interval. Bravo 720 may be applied through sprinkler irrigation equipment (solid set, portable wheel move or center pivot systems only). See calibration directions preceding this section.
	Downy mildew,	2 pts.	
	Target spot		
	Cercospora leafspot,	2 to	
	Gummy stem blight	3 pts.	
	(black rot),		
	Alternaria leaf blight,		
	Scab,		
	Powdery mildew		
	(Sphaerotheca only)		
	Cucumber belly rot	8 1/4 pts.	Use Bravo 720 in sufficient water to obtain runoff to soil surface. Make a single application when vines begin to form. Bravo 720 may be applied through sprinkler irrigation equipment as directed above.
	(Rhizoctonia solani)		
Grasses Grown for Seed	Stem rust,	1 to	Use in sufficient water to obtain adequate coverage. Begin applications during stem elongation when conditions favor disease development. Re-apply at flag (top) leaf emergence and repeat applications at 14 day intervals. Do Not apply within 14 days of harvest. Do Not allow livestock to graze in treated areas or feed treated plant parts to livestock.
	Leaf rust,	1 1/2 pts.	
	Stripe rust,		
	Septoria leafspot,		
	Glume blotch,		
	Bipolaris and		
	Drechslera leafspots		
	Selenophoma (eyespot)	1 to	
		2 pts.	

Onion (dry bulb) Botrytis leaf blight/blast,
Botrytis neck rot (suppression),
Purple blotch

Apply in sufficient water to obtain thorough coverage of tops. BRAVO 720 is recommended for use with disease monitoring systems which adjust fungicide rates and frequency of application according to disease hazard. Apply as follows:

	Low Disease Hazard & Prior to Infection	Low Disease Hazard & Some Disease Present	High Disease Hazard
Rate per Acre:	1 pt.	1 3/8 pts.	2 pts.
Frequency:	10 days	7 to 10 days	7 days

For suppression of neck rot (Botrytis spp.) during storage, a minimum of three weekly applications prior to lifting, using 1 3/8 to 2 pints of BRAVO 720 per acre, is recommended. Do not apply within 7 days of harvest.

Onion (green bunching),
Leek,
Shallot,
Garlic,
Onion grown for seed

Botrytis leaf blight/blast,
Purple blotch,
Downy mildew (suppression)

1 1/2 to 3 pts.

Use in sufficient water to obtain thorough coverage of tops. Begin applications prior to favorable infection periods, and repeat at 7 to 10 day intervals for as long as conditions favor disease. Use the high rate and a 7 day schedule of applications when heavy dew or rain persist. 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 onions, leeks or shallots. If additional disease control is needed before harvest, use another registered fungicide.

Parsnip

Alternaria leafspot,
Downy mildew,
Anthracnose,
Botrytis blight (gray mold),
Bottom rot (Rhizoctonia)

1 1/2 to 2 pts.

Apply in sufficient water to obtain adequate coverage. Make the first application at the first sign of disease or when conditions are favorable for infection. Continue applications on a 7 to 10 day schedule. Do Not apply more than 4 times per season or within 10 days of harvest. Do Not feed treated plant parts to livestock.

Tomato FOLIAGE (apply every 1 3/8 to
7-10 days): 2 pts.

Early blight,
Late blight,
Gray leafspot,
Gray leaf mold,
Septoria leafspot,
Target spot

FRUIT (apply every 2 to
7-14 days beginning 3 pts.
at fruit set):

Anthrachnose,
Alternaria fruit rot
(black mold),
Rhizoctonia fruit rot,
Late blight fruit rot,
Botrytis gray mold

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. **Bravo 720** may be combined in the spray tank with EPA-registered pesticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper manufacturer's label for specific instructions, precautions and limitations prior to mixing with **Bravo 720**. **Do Not** use with Copper-Count N in concentrated spray suspensions.

Bravo 720 may be applied through sprinkler irrigation equipment (solid set or portable wheel move systems only). See calibration directions preceding this section.

* Copper-Count is a registered trademark of Mineral Research & Development Corp.

TREE AND ORCHARD CROPS:

Apply **Bravo 720** in sufficient water and with proper calibration to obtain uniform coverage of tree 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 feasible, **Bravo 720** 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 720** 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 (Gallons per Acre)	
	Dilute	Concentrate
Conifers		
Forest Stands	Not used	10 to 20 (aircraft)
Christmas trees	100	10 to 50 (aircraft or ground equipment)
Nursery beds	100	5 to 10 (ground equipment only)

CROP	DISEASES	BRAVO 720 ACRE	RATE PER 100 GAL	APPLICATION DIRECTIONS
Conifers	Cyclaneusma and Lophodermium needlecasts (pines)	2 3/4 to 5 1/2 pts.	2 3/4 to 5 1/2 pts.	Apply in early spring prior to budbreak. Repeat applications at approximately 6 to 8 week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle wetness.
	Rhabdocline needlecast (Douglas-fir)	1 1/2 to 2 3/4 pts.	1 1/2 to 2 3/4 pts.	Apply at budbreak and repeat at 3 to 4 week intervals until needles are fully elongated and conditions no longer favor disease development. In plantations of mixed provenance, or when irregular budbreak occurs, apply weekly until all trees have broken bud, then every 3 to 4 weeks as specified above. In nursery beds, use the high rate on a 3 week schedule.