

ACCEPTED

JUN 22 1984

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide known under EPA Reg. No. 4581-322

TOPSIN M

EPA Registration No. 4581-322
GENERAL INFORMATION

Apply TOPSIN M with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of TOPSIN M to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Do not tank mix with copper containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also see local State Extension Service recommendations for application schedules.

IMPORTANT: If after using TOPSIN M as recommended, treatment is not effective, a tolerant strain of fungi may be present. Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

DIRECTIONS FOR USE

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

CROP	DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Almonds	Brown Rot Blossom Blight (Monilia sp.)	1-2		Apply at early petal bud and early petal fall.
Apples (All Varieties)	Apple Scab (Venturia sp.) Bitter Rot (Monilia sp.) Fruit Rot (Monilia sp.) Fruit Blight (Monilia sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Blaschkeia sp.) Black Rot (Phytophthora sp.)	1-2	1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest. NOTE: For control of apple diseases in the Southeastern States of Florida, Georgia, South Carolina, North Carolina and Alabama, use 3 to 4 pounds TOPSIN M per acre.
Apples (Post Harvest)	Postharvest Fruit Rot (Monilia sp.) Blight (Monilia sp.) Powdery Mildew (Podosphaera sp.)	1-2	1-2	Do not spray fruit thoroughly as soon as possible after harvest. Do not dip for more than 2 minutes. Double the concentration of TOPSIN M when incorporated in wax and applied in flow through sprays to the fruit.
Beans	Gray Mold (Botrytis sp.) White Mold (Sclerotinia sp.)	1-2	1-2	Apply once at 50% to 70% of full bloom. OR Apply twice with the first application at 10% to 30% of full bloom and a second application at 4 to 7 days later or at peak bloom. Do not apply to snap or dry beans within 14 days of harvest or to lima beans within 28 days of harvest.
Cereals	Early Blight (Cercospora sp.) Late Blight (Phytophthora sp.)			Apply to the base of the plant and 14 to 21 day schedule beginning at 10 to 12 weeks after transplanting. OR Apply as a foliar spray every 14 to 14 days beginning at 2 weeks after transplanting. Do not apply within 7 days of harvest. Do not make more than 4 applications per season.
Peaches	Leaf Spot (Cercospora sp.)			Begin applications 35 days after planting or when disease first appears and repeat at 14 to 21 day intervals as needed. Use the 14 day interval under severe disease pressure. Do not apply within 14 days of harvest.
Pecans	Brown Spot (Cercospora sp.) Fruit Spot (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.) Fruit Blight (Monilia sp.)			Use the higher rate for trees over 30 feet tall and for all applications in Arkansas, Louisiana, Mississippi, Oklahoma, and Texas. Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until fruit drop. Do not apply after fruit drop.
Soybeans	Anthracnose (Colletotrichum sp.) Brown Spot (Septoria sp.) Frosty Leaf Spot (Cercospora sp.) Pod and Stem Blight (Phytophthora sp.) Pod and Stem Blight (Phytophthora sp.) Pod and Stem Blight (Phytophthora sp.) Pod and Stem Blight (Phytophthora sp.)			Apply from full bloom to when pods are 1/2 to 3/4 full length. Make a second application 14 to 21 days after the first. Do not make the second application after more than 14 days after pods average 1/2 full length or when beans form in the pod. Use the higher rate under severe disease pressure. Do not apply to beans until 14 days after seedling emergence. Do not apply to beans until 14 days after seedling emergence. Do not apply to beans until 14 days after seedling emergence. Do not apply to beans until 14 days after seedling emergence.
Stone Fruits (All Varieties)	Brown Rot Blossom Blight (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.)			Apply at early petal bud and early petal fall. Make a second application at full bloom if conditions favor disease development. In addition, for fruit blight and rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 1 day of harvest.

CROP	DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Cherries	Brown Rot Blossom Blight (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.)	1-2	1-2	Apply at early bloom (early petal bud). Make a second application at full bloom if conditions favor disease development. In addition, for fruit blight and rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 1 day of harvest.
Cherry Leaf Spot (Coccophora sp.)		1-2	1-2	Apply at petal fall or before when leaves first unfold, and at first, second and third cover at 10 to 14 day intervals and one spray 14 to 21 days after harvest. Do not apply within 1 day of harvest.
Powdery Mildew (Podosphaera sp.) and Sphaerotheca sp.)		PLUS	PLUS	Apply at early bloom (early petal bud). Make a second application at full bloom if conditions favor disease development. PLUS Apply at shock fall and first cover. Do not apply within 1 day of harvest.
Peaches	Brown Rot Blossom Blight (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.)	1-2	1-2	Apply at early bloom (early petal bud). Make a second application at full bloom if conditions favor disease development. In addition, for fruit blight and rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 1 day of harvest. NOTE: For Florida, Georgia, South Carolina, North Carolina, Mississippi and Alabama, use the higher rate.
Peach Scab (Cladosporium sp.)		PLUS	PLUS	Apply at shock fall and first cover sprays. Do not apply within 1 day of harvest.
Plums and Prunes	Brown Rot Blossom Blight (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.)	1-2	1-2	Apply at early bloom (early petal bud). Make a second application at full bloom if conditions favor disease development. In addition, for fruit blight and rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 1 day of harvest.
Black Knot (Dibotrya sp.)				Apply at pre-bloom, petal fall, and at first second and third cover sprays at 10 to 14 day intervals. Do not apply within 1 day of harvest.
Leaf Spot (Cercospora sp.)				Apply at petal fall, shock and at first second and third cover sprays at 10 to 14 day intervals and 1 spray 14 to 21 days after harvest. Do not apply within 1 day of harvest.
Stone Fruits (Post Harvest)	Postharvest Fruit Rot (Monilia sp.) Fruit Blight (Monilia sp.) Fruit Rot (Monilia sp.)	1-2	1-2	Do not spray fruit thoroughly as soon as possible after harvest. Do not dip for more than 2 minutes. Double the concentration of TOPSIN M when incorporated in wax and applied in flow through sprays to the fruit.
Strawberries	Leaf Spot (Cercospora sp.) Leaf Blight (Phytophthora sp.) Leaf Blight (Phytophthora sp.) Leaf Blight (Phytophthora sp.)	1-2	1-2	Begin applications at early petal fall and continue at 10 to 14 day intervals. Use the higher rate for trees over 30 feet tall and for all applications in Arkansas, Louisiana, Mississippi, Oklahoma, and Texas. Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until fruit drop. Do not apply after fruit drop.
Sugar Beets	Leaf Spot (Cercospora sp.)			Apply from full bloom to when pods are 1/2 to 3/4 full length. Make a second application 14 to 21 days after the first. Do not make the second application after more than 14 days after pods average 1/2 full length or when beans form in the pod. Use the higher rate under severe disease pressure.
Sugar Cane (Harvest)	Phenanthrene (Phenanthrene sp.) Cercospora sp.)			Apply from full bloom to when pods are 1/2 to 3/4 full length. Make a second application 14 to 21 days after the first. Do not make the second application after more than 14 days after pods average 1/2 full length or when beans form in the pod. Use the higher rate under severe disease pressure.

TANK MIX FOR USE ON APPLES

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Apple Scab (Venturia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

TANK MIX FOR USE ON APPLES (Not for use in California)

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Apple Scab (Venturia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

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Bitter Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Rot (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Fruit Blight (Monilia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Powdery Mildew (Podosphaera sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Sooty Blotch (Blaschkeia sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.
Black Rot (Phytophthora sp.)	TOPSIN M 1-2	TOPSIN M 1-2	Apply at 5 to 10 day intervals from green to through petal fall, continue at 7 to 14 day intervals through harvest.

DISEASE	LBS ACRES	LBS 100 GAL.	REMARKS
Brown Rot Blossom Blight Monilia sp.) (Brown Rot Monilia sp.)	1 1/2	1/2	Apply at early bloom (early blossoms). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 7 days of harvest.
Vine Leaf Spot Coniothyrium sp.)	1 x 1 1/2	1/2	Apply at petal fall or before when leaves first yellow, and at first, second and third cover at 10- to 14 day intervals and one spray 14 to 21 days after harvest. Do not apply within 7 days of harvest.
Fruity Mildew Phoma sp.) and Septoria sp.)	1 1/2 PLUS 1 x 1 1/2	- PLUS 1/2	Apply at early bloom (early blossoms). Make a second application at full bloom. PLUS Do not apply later than first cover. Do not apply within 7 days of harvest.
Brown Rot Blossom Blight Monilia sp.) (Brown Rot Monilia sp.)	1 1/2	-	Apply at early bloom (early blossoms). Make a second application at full bloom (or 60% flower disease development). In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 7 days of harvest.
Brown Rot Blossom Blight Monilia sp.) (Brown Rot Monilia sp.)	1 + 2 1/2	1 1/2	Apply at early bloom (early blossoms). Make a second application at full bloom (or 60% flower disease development). In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 7 days of harvest. NOTE: For Florida, Georgia, South Carolina, North Carolina, Mississippi and Alabama use the higher rate.
Vine Scab Didymopanax sp.)	1 - 2 1/2 PLUS 1 x 1 1/2	1/2 PLUS 1/2	Apply at early bloom (early blossoms). Make a second application at full bloom (or 60% flower disease development). PLUS Do not apply later than first cover sprays. Do not apply within 7 days of harvest.
Brown Rot Blossom Blight Monilia sp.) (Brown Rot Monilia sp.)	1 1/2	-	Apply at early bloom (early blossoms). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14 day intervals between full bloom and final preharvest sprays. Do not apply within 7 days of harvest.
Brown Rot Botrytis sp.)	1 1/2	-	Apply at pre bloom (petal fall) and at first, second, and third cover sprays at 10- to 14 day intervals. Do not apply within 7 days of harvest.
Vine Spot Coniothyrium sp.)	1 1/2	-	Apply at petal fall or before when leaves first yellow, and third cover sprays at 10- to 14 day intervals and 14 to 21 days after harvest. Do not apply within 7 days of harvest.
Harvest Fruit Rot (Brown Rot Monilia sp.)	-	1 1/2 500-800 GPM/A	Do not spray until harvest unless it has become apparent. Maximum potential yield loss is 10%. NOTE: There may be other diseases caused by Botrytis which are also covered by this treatment.
Brown Rot Botrytis sp.) Blossom Blight Dendrophthora sp.) Vine Scab Didymopanax sp.)	1 1/2	-	Begin applications at petal fall and continue until 10-14 days after harvest. The higher the temperature, the more frequent the spraying will be required. Do not apply within 7 days of harvest.
Vine Spot Coniothyrium sp.)	1 1/2	-	Begin applications at petal fall and continue as needed. Do not apply within 7 days of harvest.
Powdery Mildew Uncinula sp.) (Coniothyrium sp.)	-	1 1/2 GPM/A	Apply to foliage beginning 2 weeks before harvest and continue every 10-14 days through harvest. NOTE: This material is not effective against powdery mildew on grapevines.
Powdery Mildew Uncinula sp.) (Coniothyrium sp.)	-	1 1/2 GPM/A	Apply to foliage beginning 2 weeks before harvest and continue every 10-14 days through harvest. NOTE: This material is not effective against powdery mildew on grapevines.

DISEASE	100 ACRES	100 GAL	REMARKS
Scab (Venturia sp.)	TOPSAY M 1.5	TOPSAY M 1.5	Apply at 1st green tip and repeat at 7 to 14 day intervals or as needed through the cover sprays.
Bitter Rot (Glomerella sp.)	Mancozeb B&WP 3.4	Mancozeb B&WP 3.4	One quart spray of may be added per 100 gallons. Add on to the spray tank last.
Black Rot (Phytophthora sp.)			
Flycatcher (Botrytis cinerea sp.)			Use the high rate of TOPSAY M and add spray oil to the spray mixture for varieties more susceptible to powdery mildew and for scab if an application is missed during an infection period.
Powdery Mildew (Podosphaera sp.)			Apply as soon as possible after infection period in order to deactivate scab and to prevent further infection.
Sooty Blotch (Glomerella sp.)			
Brown Rot (Monilia sp.)			Do not apply within 30 days of harvest.
Cedar Apple Rust (Gymnosporangium sp.)			Do not graze treated areas.
Quince Rust (Gymnosporangium sp.)			

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(Not for Use in California)			
DISEASE	LBS ACRE	LBS 100 GAL	REMARKS
Scab (Venturia sp.)	TOPSIN M 1	TOPSIN M 1 1/2	Begin applications at green tip and repeat at pink and at 7- to 14 day intervals or as needed through the cover sprays. Use the higher rates and closer interval under severe disease conditions.
Bitter Rot (Glomerella sp.)	March 60WP 6.0	March 60WP 1 2	
Black Rot (Phytophthora sp.)			With Golden Delicious apples, adverse effects on fruit finish and color may result. Use the lower rates of TOPSIN M when finish and color are of primary importance.
Flyspeck (Sphaeria sp.)			Do not apply within 30 days of harvest.
Powdery Mildew (Podosphaera sp.)			Do not graze livestock in treated areas.
Sooty Blotch (Blumeria sp.)			
Cedar Apple Rust (Dacynopezizomium sp.)			
Bull's Eye Rot (Glomerella sp.)			

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DISEASES	LDG ACH	LDG 100 GAL	REMARKS
Scab (Venturia sp.)	TOPS 4 M 1 1/2	TOPS 4 M 1 1/2	Begin applications at green tip and repeat ap- plications as needed through the cover sprays
Bitter Rot (Glomerella sp.)	1	1	Do not apply within 30 days of harvest
Black Rot (Phytophthora sp.)	Forman BWP 3 1/4	Forman BWP 1 1/2	Do not graze swine in treated areas
Fungus (Sclerotinia sp.)			
Powering Mildew (Phytophthora sp.)			
Sooty Blotch (Blaschkea sp.)			

TANK MIX FOR USE ON APPLES			
Not for use in California			
DISEASES	LOG ACRE	LOG 100 GAL	REMARKS
Scab	TOPS 4 M	TOPS 4 M	Begin applications at green tip and repeat at pink and 1/2" to 1-4 day intervals as needed through the flower sprays. Use the higher rates and closer interval under severe disease conditions.
Verticillium 10 1	4 1/2	4 1/2	
Bitter Rot	4 1/2	4 1/2	
Gnomonia 10 1	4 1/2	4 1/2	
Black Rot	17-30 lbs	3 1/2 - 4 1/2	
Physalospora 10 1	4	4	
Thyridia			
Botrytis/Anthracnose 10 1			
Powdery Mildew			
Podagracea 10 1			
Sooty Bunch			
Gnomonia 10 1			

TANK MIX FOR USE ON STONE FRUITS			
Agents: Cherries, Nectarines, Peaches, Plums and Prunes			
Not for use in California			
DISEASES	DISCURE	DIS-TIN-GAL	REMARKS
Brown Rot Blossom Blight	TOPSIN M	TOPSIN M	BROWN ROT BLOSSOM BLIGHT: Apply at early bloom stages before infection occurs. Applies to bud cherries, early popcorn nectarines & peaches, pink bud plums & plums, green to red blossoming, a prolonged or conditions favorable for disease period. Make a second application 10-14 days later.
Blossom Wp.	1.1	1.1	
Full Bloom Rot			
Blossom Spot	Caplan SCAP	Caplan SCAP	
Peach Scab	3.6	1.2	
Chloroantrax 50	OR	OR	
Powdery Mildew	Caplan 80 40	Caplan SCAP	
Polyphagous 50 and	2.3	1.1	
Glycolcholine 50			
Cherry Leaf Spot			
Coniosporium 50			
Russet Scab			
Black Knot			
Shothole 50			

1. **BRUSH** - Apply brush to the 1st day of harvest. Make an additional application 2 to 3 weeks after harvest.
 2. **BROWN RUT** - Use same schedule as for Brush. Rut Brown Bright and continue at 10 to 14 day intervals to 1 day before harvest. Make an additional application 2 to 3 weeks after harvest.
 3. **SCOUT SCUD** - In JMS & PHREDAL - Use same schedule as for Brown Rut. Brown Bright in other full coverage tanks at full bloom.
 4. **E.A. & E.T.** - Apply at first, second, and third waterings at 10 to 14 day intervals.
 5. **Full coverage** - 1 day of harvest.
 6. **TE** - This rate mixture will not control bacterial burn but will supplement a dormant program for peak retention and structure.
 7. **Component layout** - refer to other paragraphs.
 8. **Use for 30** - first period control information. Do not use this rate mixture on sprays.

TANK MIX FOR USE ON STONE FRUITS			
(Apricots, Cherries, Nectarines, Peaches, Plums and Prunes)			
(Not for use in California)			
DISEASES	LBS. ACRE	LBS. 100 GAL.	REMARKS
Brown Rot Blossom Blight (<i>Monilia</i> sp.)	1 1/2	1 1/2	BROWN ROT BLOSSOM BLIGHT—Make application at early bloom & again at full bloom.
Fruit Blight Rot (<i>Monilia</i> sp.)	"	"	FRUIT BROWN ROT—In addition to bloom sprays apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure apply additional sprays at 10- to 14- day intervals between full bloom and final preharvest sprays.
Powdery Mildew (<i>Podosphaera</i> sp. and <i>Sphaerotheca</i> sp.)	12-18 ozs.	4-6 lbs.	POWDERY MILDEW—In addition to bloom sprays, make applications at shuck fall and first cover.
Leaf Spot (<i>Corynespora</i> sp.)	"	"	LEAF SPOT—Make application when leaves first unfold and first, second, and third cover at 10- to 14- day intervals and 1 spray 14 to 21 days after harvest.
Spot Hole (<i>Corynespora</i> sp.)	"	"	SHOT HOLE RUST PEACH CANKER & PEACH SCAB Apply at pre bloom, petal fall, shuck fall, shuck fall and at 10- to 14- day intervals as long as necessary.
Rust (<i>Tromastelia</i> sp.)	"	"	BLACK KNOT Apply at first, second, and third cover sprays at 10- to 14- day intervals.
Peach Canker (<i>Glomerangium</i> sp.)	"	"	Do not apply within 1 day of harvest.
Peach Scab (<i>Glomerangium</i> sp.)	"	"	
Bark Rot (<i>Dothidea</i> sp.)	"	"	

TANK MIX FOR USE ON STONE FRUITS				
(Apricots, Cherries, Nectarines and Peaches)				
(Not for use in California)				
DISEASES	CROP	LB5 ACRE	LB5 100 GAL	REMARKS
Brown Rot Blossom Blight (<i>Botrytis</i> sp.)	Apricots and Nectarines	TOPSIN M 1.1 - 1	TOPSIN M 1 - 1	BROWN ROT BLOSSOM BLIGHT— Make application at early bloom and again at full bloom.
Fruit Brown Rot (<i>Botrytis</i> sp.)		Zeam 3.4 - 105	Zeam 1.1 - 105	FRUIT BROWN ROT—In addition to bloom sprays, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe
Powdery Mildew (<i>Podosphaera</i> sp. and <i>Sphaerotheca</i> sp.)		1 - 1	1 - 1	disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre- harvest sprays.
Cherry Leaf Spot (<i>Coniosporium</i> sp.)		TOPSIN M 1.1 - 1	TOPSIN M 1 - 1	CHERRY LEAF SPOT—Make applica- tion at full bloom and again at harvest.
Shot Hole (<i>Corythium</i> sp.)	Cherries	Zeam 3.4 - 105	Zeam 1.1 - 105	POWDERY MILDEW—In addition to bloom spray, make applications at 10 to 14 day intervals after full bloom.
Rust (<i>Truncaria</i> sp.)		1 - 1	1 - 1	CHERRY LEAF SPOT—Make applica- tion when leaves first unfold and first, second and third cover at 10 to 14 day intervals and 1 spray 14 to 21 days after harvest.
Peach Canker (<i>Cladosporium</i> sp.)		TOPSIN M 1.1 - 1	TOPSIN M 1 - 1	SHOT HOLE, RUST, PEACH CANKER AND PEACH SCAB—Apply at pink bloom, petal fall and at 10 to 14 day intervals as long as necessary. For apricots, do not apply after early cover periods. For cherries, do not apply within 7 days of harvest.
Peach Scab (<i>Cladosporium</i> sp.)		Zeam 3.4 - 105	Zeam 1.1 - 105	For nectarines and peaches, last application should be made no later than at petal fall.

TANK MIX FOR USE ON STONE FRUITS (Apples, Nectarines and Peaches) (Not for use in California)			
DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Brown Rot Blossom Blight Monilia sp.	TOPS 4 M	TOPS 4 M	BROWN ROT BLOSSOM BLIGHT—Apply at early bloom stages before infection occurs (apples—red bud; nectarines & peaches—pink bud). For 1st application only. TOPS 4 M plus Marb BWOP may be used in combination with superior type spray oil. If blossoming is prolonged or conditions favorable for disease persist, make a second application on 14 days later.
Fruit Brown Rot Monilia sp.	1	1	
Peach Scab Cladosporium sp.	Marb BWOP 6.8	Marb BWOP 2.2	FRUIT BROWN ROT—After blossom blight sprays make an additional application of 3 weeks before harvest.
Powdery Mildew Podosphaera sp. and Sphaerotheca sp.			PEACH SCAB POWDERY MILDEW—Use same schedule as for Brown Rot Blossom Blight plus applications at shuck split, shuck fall, and 14 days later. Do not apply within 14 days of harvest. NOTE: This tank mixture will not control bacterial blight, but will supplement a dormant program for peach rust can and shot-hole. Carpenter blight refers to other fungi-killers for dormant period control information.

TANK MIX for USE ON PEANUTS (Not for use in California)		
DISEASES	LBS ACRES	REMARKS
Leaf Spot Cercospora sp. 1 Rust Phoma sp. 1 Web Blotch Ascochyta sp. 1	TOPSIDE 10 " " " " MANCIPRO 20WP 1.2	Begin application 35 to 40 days after planting or when disease first appears. Repeat at the following intervals: for Cercospora leaf spot at 10 to 14 days for Rust at 7 to 10 days, and for Ascochyta web blotch at 7 to 14 days. Spray can may be added at the rate of 1 pint to 1 quart per acre. Do not graze or feed treated areas. Hay or hays to livestock. Do not apply within 14 days of harvest.

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BEST DOCUMENT AVAILABLE

TOPSIN[®] M

THIOPHANATE-METHYL FUNGICIDE

70% Wettable Powder

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl[(1,2-phenylene)

bis(iminocarbonothioyl)]bis(carbamate))* 70%

INERT INGREDIENTS: 30%

TOTAL: 100%

*Also known as dimethyl 4,4'-o-phenylenebis[3-thioallophanate]

*TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to Pennwalt Corporation, and is covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847, 4,020,095; and 4,029,813.

ACCEPTED

JUN 22 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 4581-322

KEEP OUT OF REACH OF CHILDREN

CAUTION

Statement of Practical Treatment

If swallowed, induce vomiting with a mixture of soap or mustard in warm water. Call a physician immediately. If on skin, wash immediately with soap and water. If in eyes, flush immediately with plenty of water.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS (AND DOMESTIC ANIMALS)

May be Harmful if Swallowed, Inhaled, or Absorbed Through Skin

Avoid contact with eyes, skin, or clothing. Avoid breathing of dust or spray mist. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse. Do not contaminate feed or food. Keep children and pets out of treated areas until material is completely dry.

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. Do not apply directly to water and wetlands. Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State, or local procedures

CONTAINER DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities

EPA Registration No. 4581-322

EPA Establishment No. 00000-00-0

 **PENNWALT**

Net Weight

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Philadelphia, PA 19102

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