

Drexel

MANZI FLOWABLE
37% Maneb Dispersion

ACTIVE INGREDIENT

INERT INGREDIENTS TOTAL

KEEP OUT OF REACH OF CHILDREN

CAUTION

REG. NO. N-14713-108
EPA REG. NO. 14713-M51

Net Contents
1.06 L (3.5 FL OZ)

Drexel Chemical Company

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

May cause irritation of eyes, nose, throat and skin. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. In case of contact, flush with plenty of water. For eyes, get medical attention. Do not apply this product in such a manner as to directly or through drift breathe workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, drink 1 or 2 glasses of water and induce vomiting by flushing back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

IF SPLASHED IN EYES, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

IF SPILLED ON SKIN, immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from fire and sparks. Store in a cool dry place.

DIRECTIONS FOR USE

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

FARM WORKER SAFETY STATEMENTS

Do not use or treated areas without protective clothing until harvest has dried. Harvest or other plants may require more protective clothing intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Workers or other persons must be given to workers who are exposed to be in a treated area or in an area about to be treated with this product. Overexposure from inhalation of spray or dusts that may not be covered without specific protective clothing until spray has dried, and appropriate actions to take in case of overexposure, as described under Precautionary Statements on this label. When oral treatments are given, workers shall be given in a language commonly understood by the workers. Oral treatments must be given if there is reason to believe an acute or chronic hazard is indicated by workers. CAUTION: Area treated with this product (date of application). Do not enter within 14 days of protective clothing until spray has dried in case of accidental exposure. Wash eyes or skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse.

DIRECTIONS FOR USE AS A SPRAY

MANZI is approved for application in sufficient water to provide good coverage with available equipment in either tank sprays or in conventional ground or aerial sprays. Rates listed are based

on 100 gallons of spray unless otherwise noted. Rates for conventional and aerial applications should be comparable to the rates for tank sprays on a per acre basis. MANZI may be applied by aircraft at the rate shown below for control of certain areas during the period between the time of application and the time of harvest. For use in orchards, and other areas where there is a long interval between the spray and the harvest, use the higher rates when conditions of spray and lower rates when they are mild.

CROP	Amount Per Acre	
	MANZI (OZ)	WATER (GALL)
Tree Fruit & Nut Crops	4 to 8	10 to 15
Apples and small fruits	1.2 to 1.6	6 to 8
Small Fruit, Tree Crops	1.2 to 2.4	6 to 8

Apply with properly calibrated spray equipment in a manner so that spray delivery is uniform over the entire spray swath.

AGRICULTURAL FRUIT AND NUT CROP USES

ALMONDS: Brown Rot, Blight, Leaf Spot, Scab—1.2 to 1.6 quarts. Apply to orchards, full bloom, and post-harvest in every 7 to 14 days if bloom is present. Blight—1.2 to 1.6 quarts. Blight in dormant stage. Repeat at 7 to 10 day intervals through post-harvest if applied after post-harvest, do not feed birds in dairy orchards or game lands. "Y" blight. Do not apply later than 5 weeks after post-harvest.

APPLES: Black Rot, Blight Rot, Botrytis, Scab, Powdery Mildew, Apple Rust, Colletrotium, Fire Blight, Scab and Early Blight—1.2 to 1.6 quarts plus suitable sprayer. Blight: Begin in orchards, full bloom, and post-harvest in every 7 to 14 day intervals in orchards up to 2 weeks before harvest. Jochit Rot (Brown Rot)—1.6 quarts at full bloom and post-harvest. Blight—1.6 quarts from dormant through post-harvest in regular orchards. Do not apply later than 14 days before harvest.

APRICOTS: Brown Rot, Nectar, Tong and Frog—1.2 to 1.6 quarts. Blight of red bud blight. Repeat in early bloom, full bloom, post-harvest, and at 7 to 14 day intervals in orchards up to 2 weeks before harvest. Jochit Rot (Brown Rot)—1.6 quarts at full bloom and post-harvest. Blight—1.6 quarts from dormant through post-harvest in regular orchards. Do not apply later than 14 days before harvest.

BANANAS: Sheath (Corticium) blight—2.4 to 4.8 quarts/acre in sufficient water to cover. Apply in 3 week intervals beginning at first sign of blight.

CHERRY/PLUM: Fruit Rot (Monilia) blight—1.6 to 2.4 quarts. Repeat at mid-bloom. Repeat at 14 to 16 day intervals. Do not apply later than 4 weeks after mid-bloom. Tong Blight (Lophodermium), Fruit Rot (Woronin) and Orange—1.6 quarts per 100 gallons of water. Apply 500 g gallons per acre. Begin after bloom. Repeat between July 10 and 20, August 1 and 10, and August 16 and 25. Fruit Rot (Gymnosporium), Sporangium, and Gloeosporium (New Jersey and Wisconsin)—1.6 quarts. Begin after mid-bloom. Repeat 10 to 14 days later and 4 weeks after mid-bloom. Do not apply within 30 days of harvest.

PISTACHIO: Surface blight and rot (Ascochyta, Cercospora) blight—0.6 quarts. Make the application 10 to 20 days before harvest. Do not apply within 10 days of harvest.

GRAPES: Black Rot (Botrytis) blight—Apply 1.2 to 1.6 quarts/100 gallons. Repeat just before bloom. Repeat just after bloom and again 10 days later. Do not apply later than 10 days after bloom.

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ACCEPTED
JUL 9 1987
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, in the pesticide registered under EPA Reg. No. 19713-108

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LECTARINES: Brown Rot, Stem Rot—1.2 to 1.6 quarts. Begin at first bud. Repeat in early bloom, full bloom, post of full, and at 7 to 14 day intervals up to 2 weeks before harvest. Do not apply within 14 days of harvest.

PAPAYA: Anthracnose (Cottony Blight), Black Spot (Carrottopping)—1.6 to 2.4 quarts in sufficient water to cover (not less than 50.0 gallons) per acre. Add 4.0 ounces of spruce-kiln oil (100 gallons of spray suspension. Begin when fruit is set. Repeat at 10 to 14 day intervals during winter and early spring and every 7 days during wet weather. Direct spray to come of column of fruit to cover developing fruit.

PEACHES: Brown Rot, Scab, Stem Rot—See under Nectarines. Peach Leaf Curl—1.2 to 1.6 quarts. Apply in spring dormant period. Do not apply within 2 days of harvest. If applied within 14 days of harvest, remove residues by washing.

AGRICULTURAL VEGETABLE CROP USES

ASPARAGUS: Rust—2.4 quarts/50 to 700 gallons/acre. Begin in established fields immediately after harvest. Repeat at 10 day intervals as long as necessary in young fields which will not be harvested, begin when disease appears and repeat at 10 day intervals. Postharvest application only on established fields.

BEANS (Lima): Anthracnose, Downy Mildew—1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 4 to 7 day intervals. Do not apply within 4 days of harvest of succulent beans.

BEANS (Green and Dry): Anthracnose, Downy Mildew, Rust—1.2 to 1.6 quarts. Begin when plants are small. Repeat at 5 to 7 day intervals. Do not apply within 4 days of harvest of succulent beans.

BROCCOLI: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin when disease first appears. For downy mildew begin in plant bed and repeat at 3 day intervals. In field, repeat at 7 to 14 day intervals. If applied within 3 days of harvest, remove residues by washing or blanching.

BRUSSELS SPROUTS, CAULIFLOWER, AND KOHLRABI: Alternaria Leaf Spot, Downy Mildew—1.2 quarts. Begin when disease first appears. Repeat at 3 day intervals in plant beds and at 7 to 10 day intervals in field.

CABBAGE: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin 7 to 10 days after planting. Repeat at 3 to 5 day intervals in plant beds and field. Do not apply within 7 days of harvest.

CANTALOUPE, CABBAGES, CRENSHAW, HONEYDEW MELONS, HONEY BALLS, MUSKMELONS, PERSIAN MELONS, AND WATERMELONS: Anthracnose, Cercospora Leaf Spot, Downy Mildew,ummy Stem Blight—1.2 to 1.6 quarts. Begin at first sign of disease when vines begin to run or when disease first appears. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

CARROTS: Alternaria and Cercospora Leaf Spot—1.2 to 1.6 quarts. Begin when plants are 6 weeks old. Repeat at 7 to 10 day intervals.

CASSABA MELONS: See under Cantaloupe.

CARFLOWER: See under Brussels Sprouts.

CELERY: Early Blight (Cercospora), Late Blight (Septoria)—1.2 to 1.6 quarts. Begin when plants emerge in plant beds. Repeat at 3 to 5 day intervals in plant beds and at 7 to 10 day intervals after plants are set in field. Remove excess residues by stripping, blanching and washing. Do not apply within 14 days of harvest.

COLLARDS, KALE, MUSTARD GREENS, TURNIPS: Alternaria Leaf Spot and Downy Mildew—Use 0.8 to 2.4 quarts per acre and start application when disease first appears in

area and repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove excess residues by washing.

CORN (Sweet): Helminthosporium Blight—1.2 quarts. Begin when plants are 6 inches high. Repeat at 4 to 7 day intervals until harvest. Do not feed treated forage to livestock.

CRENSHAW MELONS: See under Cantaloupe.

CUCUMBERS: Alternaria (Malformations) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Pythium Fruit Rot—1.2 to 1.6 quarts. Begin when disease first appears in plants begin to run. Repeat at 7 to 10 day intervals or at least 3 to 5 day intervals under severe disease conditions. Do not apply within 5 days of harvest.

EGGPLANT: Anthracnose, Early Blight (Alternaria), Phytophthora Blight or Fruit Rot—1.2 to 1.6 quarts. Begin when fruit starts to form. Repeat at 7 to 10 day intervals.

ENDIVE, LETTUCE: Downy Mildew—1.2 to 1.6 quarts. Begin when disease first appears. Repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove residues from head lettuce by stripping and blanching, and from leaf lettuce and endive by washing or other effective means.

HONEY BALL MELONS: See under Cantaloupe.

HONEYDEW MELONS: See under Cantaloupe.

KOHLRABI: See under Brussels Sprouts.

LETTUCE: See under Endive.

MELONS: See under Cantaloupe.

MUSKMELONS: See under Cantaloupe.

ONIONS: Botrytis Leaf Blight (Black), Downy Mildew, Purple Blotch—1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 7 to 10 day intervals.

PAPAYA: Anthracnose, Cercospora Leaf Spot (Fragaria Spot), Ripe Rot—1.2 to 1.6 quarts. Begin when disease first appears. Repeat at 7 to 10 day intervals.

PERSIAN MELONS: See under Cantaloupe.

POTATOES: Early and Late Blight—1.2 to 1.6 quarts. Begin when plants are 2 to 6 inches high. Repeat at 5 to 10 day intervals, more often under severe late blight conditions.

POTATOES (Seed Potatoes): Fusarium Seed Rot Decay—1.6 quarts/100 gallons. Dip whole or cut tubers. Spread in seed piece if held before planting. Seed piece treatment only. Do not use excess seed pieces for food or feed.

PUMPKINS: Angular Leaf Spot, Downy Mildew—2.4 quarts/acre in sufficient water to cover or 1.2 to 1.6 quarts/100 gallons. Begin when disease first appears. Repeat at 7 to 10 day intervals.

RHUBARB (Greenhouse, Coldframe): Botrytis Leaf Rot—1.6 quarts. Begin 4 weeks before harvest. Make 4 applications at 7 day intervals.

SPINACH: Downy Mildew (Wet Mild), White Rust—1.2 to 1.6 quarts. Begin when disease first appears. Repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove excess residues by washing.

SQUASH (Cucurbit or non Cucurbit): Anthracnose, Downy Mildew—1.2 to 1.6 quarts. Begin when plants start to run. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

TOMATOES (Greenhouse and Field): Cladosporium Leaf Mold, Early and Late Blights, Gray Leaf Spot (Stemphylium), Septoria Leaf Spot—1.2 to 1.6 quarts. Begin at first sign of disease and repeat at 7 to 10 day intervals. Anthracnose—2.4 quarts. Begin when first fruit forms. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

WATERMELONS: See under Cantaloupe.

AGRICULTURAL FIELD CROP USES

GRASSES (Ornamental-Grown for Rootstock): Rootstock, Downy Mildew, Botrytis Blight, Leaf, Stem, and Sheath Rot—1.8 to 2.4 quarts/50 to 100 gallons per acre. Begin when first signs are first seen. Repeat at 7 to 14 day intervals. Do not feed treated grass to livestock.

SUGAR BEETS: Leaf Spot (Cercospora)—1.2 to 2.4 quarts in sufficient water to cover. Begin when disease first appears. Repeat at 7 to 10 day intervals for 3 to 5 applications. Do not feed treated tops to livestock. Do not apply within 10 days of harvest.

TOBACCO: Blue Mold—0.4 to 1.2 quarts. Use 2.5 to 5.0 gallons of diluted suspension/100 square yards of plant bed. Begin when plants are about the size of a thumb or when they start to form in area. Repeat twice weekly until plants are set in field. Use lower rates in early applications increasing to 3.2 quarts at plants increase in size. For disease control under field conditions, use 1.4 to 2.5 qts. per acre. Repeat as necessary.

AGRICULTURAL ORNAMENTAL CROP USES

CARNATIONS: Alternaria Leaf Spot, Anthracnose, Botrytis Blight—0.8 to 1.2 quarts. Begin when new growth starts. Repeat weekly.

CHRYSANTHEMUMS: Aecydium Ray Blight, Botrytis Petal Spot, Septoria Leaf Spot, Use 12.6 fluid ounces MANZI plus 30 pounds CAPTAN (50% per 100 gallons of water. Apply twice weekly during the blooming season for petal spot and ray blight. For Septoria Leaf Spot apply weekly throughout the season.

DANIELS: Alternaria Leaf Spot, Botrytis Blight—0.8 to 1.2 quarts. Begin when new growth starts. Repeat weekly.

DOGWOOD: Anthracnose—0.8 to 1.2 quarts. Begin when buds open. Repeat when buds fall 4 weeks later and in late summer.

GLADIOLUS: Botrytis Blight, Fusarium and other phythium Leaf Spots—1.2 quarts. Begin when flower spikes are developing. Repeat 2 to 3 times at weekly intervals.

GRASSES (Monocot and Arecoid): Brown Patch—4.0 fluid ounces in sufficient water/100 square feet. Begin at first sign of disease. Repeat at 7 to 14 day intervals. Botrytis Blight—0.8 to 1.2 fluid ounces in sufficient water/100 square feet. Apply to the brown patch, where blight, 4.0 to 6.0 fluid ounces in sufficient water/100 square feet. Apply to the brown patch, where leaf, stem and sheath spots—2.4 quarts/100 gallons/acre. Begin when first symptoms are first seen. Repeat at 7 to 14 day intervals. Do not feed treated grass to livestock.

LILIES: Botrytis Blight—0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.

PANSIES: Anthracnose—0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.

PEONIES: Alternaria Leaf Spot, Botrytis Blight, Phytophthora Blight—0.8 to 1.2 quarts. Apply to foliage and soil in early spring and early fall and 7 to 10 day intervals during the growing season.

ROSES: Black Spot, Cercospora Leaf Spot (Tawny, Rust (Colletotrichum)—0.8 to 1.2 quarts. Begin when first leaves unfold. Repeat at 7 to 10 day intervals.

SNAPDRAGONS: Rust—0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.

ZINNIA: Alternaria Blight, Leaf Spot, Botrytis Blight—0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.

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STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Move containers by hand or truck. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with acids or alkalies. Store in original containers only. If the contents are leaking or the material is spilled, follow these steps:

1. Contain spill, absorb with a material such as saw dust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticides.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.
6. Do not allow fuel oil to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or purchase 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-CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals (not specifically recommended), and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage and handling of this material and in strict accordance with directions given hereon.

In no case shall Drexel or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use or handling is not in strict accordance with directions given hereon. This foregoing is a condition of sale by Drexel Chemical Company, Inc. It is accepted as such by the Buyer.

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