



United States
 Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
 247868

Application for Pesticide - Section I

1. Company/Product Number 1812-251	2. EPA Product Manager Ms. Connie Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Manex®	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Griffin Corporation P.O. Box 1847 Valdosta, GA 31603-1847 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of adding additional brand names per PR Notice 95-2
 This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Metal <input checked="" type="checkbox"/> Plastic Glass Paper Other (Specify) _____		
* Notification must be submitted		If "Yes" Unit Packaging wgt. 2½ gal.	No. per container 2	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 100 gal, 30gal, 2½gal		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Richard H. Collier	Title Director, Regulatory Affairs	Telephone No. (Include Area Code) 912/242-3635
2. Signature 		6. Data Application Received (Stamped)
3. Title Director, Regulatory Affairs		
4. Typed Name Richard H. Collier		
5. Date January 17, 1996		

Griffin

Pentathlon[®]

FUNGICIDE

Made in the USA

Flowable With Zinc

ACTIVE INGREDIENT

Maneb (Manganese Ethylenebisdithiocarbamate)	37%
(Total manganese as metallic	7.6%)

INERT INGREDIENTS	63%
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TOTAL	100%
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4 Pounds of Maneb Per Gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching 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 ON SKIN: Remove by washing.

IF IN EYES: Flush with plenty of water. Call a physician.

GRIFFIN CORPORATION
VALDOSTA, GEORGIA 31601

Specimen Label

EPA REG. NO. 1812-251

449

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

may cause irritation of eyes, nose, throat and skin. Avoid breathing spray mist. Do not rub eyes or mouth with hands.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers (other than mixers and loaders) must wear:

Coveralls over long-sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Mixers and Loaders must wear:

Coveralls over long-sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Protective eyewear

Chemical-resistant apron when mixing and loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

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.

When closed systems or enclosed cabs must be used 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.

Human flaggers must be in the enclosed cabs.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift or 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. Cover or incorporate spilled treated seed. Do not contaminate water when disposing of equipment washwaters.

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. 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 Statement contains requirements for 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within a scope of the Worker Protection Standard for agricultural pesticides 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries or greenhouses.

BEST AVAILABLE COPY

STORAGE AND DISPOSAL

Store in a cool dry place. Do not contaminate water, food or feed by storage or disposal.

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 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.

APPLICATION DIRECTIONS

Pentathlon is approved for application in sufficient water to provide good coverage with available equipment in either dilute sprays or in concentrate ground or aerial sprays. Rates listed are based on 100 gallons of dilute spray unless otherwise noted. Rates of product for concentrate and aerial applications should be equal to the rates for dilute sprays on a per acre basis.

FOR GROUND APPLICATIONS use at the rate indicated in sufficient water for thorough coverage, minimum of 10 gallons. Increased volume of water may be necessary as foliage density increases.

FOLIAR APPLICATIONS

Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Season:

If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season:

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

SEED TREATMENT

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application for seed treatment may be made on crops which have registered seed treatment uses.

CHEMIGATION

Apply Pentathlon only through sprinkler including center pivot, lateral move, and tow, side (wheel) roll, traveler, big gun, solid set or hand move. Do not apply Pentathlon 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 connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Instructions for Public Water Systems

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventor (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

1. Pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent the water fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Sprinkler Irrigation Systems

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of liquid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Good agitation is required in the injection tank. In moving systems, apply specified dosage of Pentathlon as a continuous injection. In non-moving systems inject Pentathlon for 15 to 30 minutes at end of cycle. Use the least amount of water possible with uniform coverage.

Mix the amount of Pentathlon needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.

Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all Pentathlon is flushed from system.

ORNAMENTALS

CROPS	DISEASES	RATE PER ACRE IN 100 GAL.	USE INSTRUCTIONS
Carnations	Alternaria Leaf Spot, Anthracnose, Botrytis Blight	0.8 - 1.2 quarts	Begin when new growth starts. Repeat weekly.
Chrysanthemums	Ascochyta Ray Blight, Botrytis Petal Spot, Septoria Leaf Spot	12.8 fl oz plus 3/4 pound Captan 50W	Apply twice weekly during the blooming season for petal spot and ray blight. For septoria leaf spot apply weekly throughout the season.
Dahlias	Alternaria Leaf Spot, Botrytis Blight	0.8 - 1.2 quarts	Begin when new growth starts. Repeat weekly.
Dogwood	Anthracnose	0.8 - 1.2 quarts	Begin when buds open. Repeat when bracts fall 4 weeks later and in late summer.
Gladiolus	Botrytis Blight, Curvularia and Stemphylium Leaf Spots	1.2 quarts	Begin when flower spikes are developing. Repeat 2 to 3 times at weekly intervals.
Lilies	Botrytis Blight	0.8 - 1.2 quarts	Begin with new growth. Repeat weekly.
Pansies	Anthracnose	0.8 - 1.2 quarts	Begin with new growth. Repeat weekly.
Peonies	Alternaria Leaf Spot, Botrytis Blight, Phytophthora Blight	0.8 - 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 (Texas), Rust (California)	0.8 - 1.2 quarts	Begin when first leaves unfold. Repeat at 7 to 10 day intervals.
Snapdragons	Rust	0.8 - 1.2 quarts	Begin with emergence. Repeat weekly.
Zinnias	Alternaria Blight, Leaf Spot, Botrytis Blight	0.8 - 1.2 quarts	Begin with emergence. Repeat weekly.

TURF

CROPS	DISEASES	RATE PER 100 GAL.	USE INSTRUCTIONS
Grasses	Brown Patch	4.8 fl oz in sufficient water/1000 square feet	Begin at first sign of disease. Repeat at 7 to 14 day intervals. Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.
	Dollar Spot	9.6 - 12.8 fl oz in sufficient water/1000 square feet	Begin at first sign of disease. Repeat at 7 to 14 day intervals. Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.
	Melting-Out	4.8 - 6.4 fl oz in sufficient water/1000 square feet	Begin at first sign of disease. Repeat at 7 to 14 day intervals. Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.
	Leaf, Stem and Stripe Rusts	2.4 quarts in 100 gallon of water	Begin when rust pustules are first seen. Repeat at 7 to 14 day intervals. Do not graze treated areas or feed clippings to livestock.

WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at Griffin Corporation's election, the replacement of this product. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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