

PM 21 1001-65

10/5

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
Other

OPP Identifier Number
214244

Application for Pesticide - Section I

1. Company/Product Number 1001-65	2. EPA Product Manager Connie Welch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Protect T/O	PM# PM 21	
5. Name and Address of Applicant (Include ZIP Code) W.A. Cleary Chemical Corp. 178 Ridge Road, Suite A Dayton, NJ 08810-1501 <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.

NOTIFICATION
APR 25 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Notification per PRN 88-6. ^{AND 45-2} This is to certify that this notification meets every requirement of PRN 88-6. The changes/additions to this label were requested by Cal. EPA to comply with State registration standards. The word "bags" was changed to "foil pouch". The statement "Not For This Use In California" was added under the chemigation section.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input 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 F. Fletcher	Title Technical/Regulatory Mgr.	Telephone No. (Include Area Code) (908) 329-8399
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Richard F. Fletcher</i>	3. Title Technical/Regulatory Manager	
4. Typed Name Richard F. Fletcher	5. Date March 28, 1996	

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SPECIMEN LABEL

PROTECT^{T/O}

IN WATER SOLUBLE BAGS

TURF AND ORNAMENTAL FUNGICIDE

An 80% Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate.

ACTIVE INGREDIENTS

A coordination product of Zinc Ion and Manganese Bisdithiocarbamate 80%

Manganese++ 16%

Zinc++ 2%

Ethylenebisdithiocarbamate Ion 62%

INERT INGREDIENTS 20%

TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED: Call a physician or Poison Control Center. 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.
- IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
- IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

• PRECAUTIONARY STATEMENTS-HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause irritation of eyes. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

• PERSONAL PROTECTIVE EQUIPMENT (PPE)

APPLICATORS AND OTHER HANDLERS MUST WEAR: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eyewear when mixing or loading, chemical-resistant apron when cleaning equipment, mixing or loading. 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.

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 HAZARD

This product is toxic to fish. Drift and 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.

• CHEMICAL HAZARDS

Do not allow to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of the product as a fungicide and create vapors which may be flammable. Keep container closed when not in use.

EPA REG. NO. 1001-65

EPA EST. NO. 33967-NJ1



W. A. Cleary Chemical
CORPORATION
DAYTON, NEW JERSEY 08810

• STORAGE AND DISPOSAL

Storage: Store in the original container in a dry area. If allowed to become wet the product will deteriorate and represent a fire hazard. Keep away from sources of ignition (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed 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: Completely empty foil pouch into application equipment. Dispose of foil pouch in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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 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 statements 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 24 hours.

Personal Protective Equipment (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, water-proof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the 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, forests, nurseries, or greenhouses.

TURF AND LANDSCAPE USES: Do not enter or allow entry into treated areas until sprays have dried unless wearing the personal protective equipment listed on this label.

GENERAL INFORMATION

PROTECT T/O TURF AND ORNAMENTAL FUNGICIDE is a wettable powder containing a coordination product of zinc ion and manganese ethylenebisdithiocarbamate, and is recommended for use as a spray for the control of many important plant diseases. When used according to directions, it provides very high fungicidal activity and can be safely used on both turf grasses and certain ornamentals. PROTECT T/O provides control of most common turfgrass diseases and it is also effective in controlling major fungus diseases of certain ornamentals.

Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can generally be accomplished with lower rates and less frequent fungicide applications. Once

diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective program for maximum product performance.

INSTRUCTIONS FOR APPLICATION

TO MIX: Slowly add PROTECT T/O into spray tank while it is being filled and the agitator is running. Add insecticides and nutritional sprays last. PROTECT T/O is compatible with most commonly used pesticides. Read and observe the precautionary statements and other information appearing on product labels used in mixtures.

FOR AERIAL APPLICATION: Use at rate indicated in sufficient water for thorough coverage or a minimum of 2 gallons per acre. Use a spreader-sticker, such as Cleary's Clearspray T/O, at a rate of 4 fl.oz. per 100 gallon spray if needed. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension.

TURF APPLICATIONS

Refer to General Use Instructions except when more specific directions are given for individual crops or diseases.

GENERAL USE: To be used on golf courses, sod farms and for professional applications to industrial, municipal and residential lawns. Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.

Start applications when grass greens up in the spring or when disease first appears and repeat at 7-14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 7 day spray schedule. Apply in sufficient water for adequate coverage, 2-4 gallons are recommended for mechanical applications, smaller volumes are acceptable for hand applications. Do not graze treated areas. Do not feed clippings to livestock.

Disease(s) Controlled	Rate of PROTECT T/O Oz./1000 Sq. Ft.	Remarks
Copper Spot, Red Thread, Fusarium Blight (F. Roseum) Slime Mold	4-8	
Helminthosporium, Melting Out, Rhizoctonia Brown Patch, Rust	4	Apply on a 7 day schedule for Rhizoctonia.
Pythium Blight	8	Apply at 5 day intervals or more frequently if conditions are especially favorable for disease development.
Dollar Spot	6-8	
Algae	6	
Snow Mold (Microdochium Nivale)	6-8	Apply at 2 week intervals during winter.

HORTICULTURAL APPLICATIONS

FIELD, NURSERY, GREENHOUSE, and LANDSCAPE

For use on the listed Annual and Perennial Flowers, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs. Refer to General Use Instructions except when more specific directions are given for individual crops or diseases. Do not use edible portions of any listed plant for food or feed purposes.

GENERAL USE: Apply the equivalent of 1.5 lbs. PROTECT T/O per 100 gallons of water (2 water soluble bags) in full coverage spray. To improve performance, add 2-4 oz. spreader-sticker, such as Cleary's Clearspray T/O, per 100 gallons of spray. Begin spraying when plants are well leafed out or at first sign of disease and apply at 7-10 day intervals throughout the season, follow State Extension Service recommendations for disease control on the listed ornamental plants. Note: The Directions for Use of this product reflect cumulative inputs from both field use experience and product testing programs. However, it is impossible to test this product on all plant species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied. Wait 5-7 days after treatment to evaluate trial results.

4045

Cleary's PROTECT T/O fungicide is recommended for use on the plant species listed below for the control of the following diseases and pathogens:

Alternaria - leaf spots and flower blights
Anthracnose Blights - *Colletotrichum, Discula, Elsinoe, Gloeodes, Gloeosporium, Glomerella, Gnomonia, Guignardia*
Aschochyta Blights
Blackspot of Rose - *Diplocarpon*
Black Leafspot of Elm
Botryosphaeria Dieback
Botrytis Blights, Gray mold
Brown Rot Blight - *Monolinia, Sclerotinia, Whetzelinia*
Cylindrocladium Leaf Blight
Downy Mildews - *Plasmopara, Peronospora*
Flower Blights - *Aschochyta, Botrytis, Monolinia, Sclerotinia, Whetzelinia*
Gray mold - *Botrytis*
Ink Spot - *Ciborinia, Sclerotinia, Whetzelinia*
Kabatina Dieback
Leafspots - *Alternaria, Bipolaris, Cephalosporium, Cercospora,*

Cylindrosporium, Dactylaria, Didymellina, Diplocarpon, Dreschleria, Exerohilum, Helminthosporium, Entomosporium, Fabraea, Leptosphaeria, Marssonina, Mycosphaerella, Pestalotia, Phyllosticta, Rhytisma, Septoria, Sphaeropsis, Stigmia
Needlecasts of Conifers - *Cyclaneusma, Ismiella, Lophodermium, Naemacyclus, Rabdicline, Rhizosphaeria, Scirrhia*
Phytophthora Dieback
Ramularia Blight
Rhizoctonia Web Blight
Rusts - *Gymnosporangium, Melampsora, Melampsoridium, Phragmidium, Puccinia, Uromyces*
Scab - *Fusicladium, Venturia, Sphaceloma, Cladosporium*
Shothole Leafspot - *Blumeriella, Cocomyces*
Stemphyllium Blight
Tip Blights, Phomopsis, Diaporthe
Tip Blight of Pine - *Diplodia, Sphaeropsis*
Volutella Blight

Ornamental plants for which Cleary's PROTECT T/O is recommended:

- | | | | |
|---|---|--|--|
| African violet - <i>Saintpaulia</i> | Daisy, Shasta - <i>Chrysanthemum</i> | Laurel, Cherry - <i>Prunus</i> | Plane Tree - <i>Platanus</i> |
| Ageratum - <i>Ageratum</i> | Daisy, Transvall - <i>Gerbera</i> | Laurel, Mountain - <i>Kalmia</i> | Plum (ornamental) - <i>Prunus</i> |
| Almond (ornamental) - <i>Prunus</i> | Delphinium - <i>Delphinium</i> | Lavender Cotton - <i>Santolina</i> | Poinsettia - <i>Euphorbia</i> |
| Alyssum - <i>Lobularia</i> | Dieffenbachia - <i>Dieffenbachia</i> | Lily - <i>Lilium</i> | Poplar - <i>Populus</i> |
| Andromeda - <i>Pieris</i> | Dogwood* - <i>Cornus</i> | Liriope - <i>Liriope</i> | Portulaca - <i>Portulaca</i> |
| Anthurium - <i>Anthurium</i> | Dracaena - <i>Dracaena</i> | Lobelia - <i>Lobelia</i> | Pothos - <i>Syngonium</i> |
| Apple (ornamental) - <i>Malus</i> sp. | Dusty Miller - <i>Centaurea</i> | Loquat - <i>Eriobotrya</i> | Prayer Plant - <i>Primula</i> |
| Arborvitae - <i>Thuja</i> | Elm - <i>Ulmus</i> | Magnolia - <i>Magnolia</i> | Privet - <i>Ligustrum</i> |
| Ash - <i>Fraxinus</i> | Euonymus - <i>Euonymus</i> | Mahonia - <i>Mahonia</i> | Protea - <i>Protea</i> |
| Ash, Mountain - <i>Sorbus</i> | Fatsia - <i>Fatsia</i> | Maple - <i>Acer</i> | Pyracantha - <i>Pyracantha</i> |
| Aspen - <i>Populus</i> | Ferns - <i>Nephrolepis, Polypodium, Polystichum, Pteris</i> | Myrtle - <i>Myrtus</i> | Red Tip - <i>Photinia</i> |
| Aster, China - <i>Callistephus</i> | Ficus - <i>Ficus</i> | Nasturtium - <i>Tropaeolum</i> | Redwood - <i>Sequoia</i> |
| Azalea* - <i>Rhododendron</i> | Fig (ornamental) - <i>Ficus</i> | Nepthytis - <i>Nepthytis</i> | Rhododendron* - <i>Rhododendron</i> |
| Baby's Breath - <i>Gypsophila</i> | Firethorn - <i>Pyracantha</i> | Nicotiana - <i>Nicotiana</i> | Rose - <i>Rosa</i> |
| Begonia - <i>Begonia</i> | Firs - <i>Pseudotsuga</i> | Nierembergia - <i>Nierembergia</i> | Sage - <i>Salvia</i> |
| Birch - <i>Betula</i> | Fittonia - <i>Fittonia</i> | Oak - <i>Quercus</i> | Sand Cherry - <i>Prunus</i> |
| Boxwood - <i>Buxus</i> | Fuchsia - <i>Fuchsia</i> | Orchids - <i>Cymbidium, Phalaenopsis</i> | Santolina - <i>Santolina</i> |
| Buckeye - <i>Aesculus</i> | Garden Balsam - <i>Impatiens</i> | Osmanthus - <i>Osmanthus</i> | Schefflera - <i>Schefflera</i> |
| Camellia* - <i>Camellia</i> | Geranium - <i>Geranium, Pelargonium</i> | Pachysandra* - <i>Pachysandra</i> | Senecio - <i>Senecio</i> |
| Cardinal Flower - <i>Lobelia</i> | Gerbera - <i>Gerbera</i> | Palm, Areca - <i>Chrysalidocarpus</i> | Sequoia - <i>Sequoia</i> |
| Carnation - <i>Dianthus</i> | Gladiolus - <i>Gladiolus</i> | Palm, Chamaedorea - <i>Chamaedorea</i> | Snake Plant - <i>Sansevieria</i> |
| Catharanthus - <i>Catharanthus</i> | Gold Dust Tree - <i>Aucuba</i> | Palm, King - <i>Archotophoenix</i> | Snapdragons - <i>Antirrhinum</i> |
| Cedar, Red - <i>Juniperus</i> | Gomphrena - <i>Gomphrena</i> | Palm, Madagascar - <i>Chrysalidocarpus</i> | Spathiphyllum - <i>Spathiphyllum</i> |
| Celosia - <i>Celosia</i> | Gypsophila - <i>Gypsophila</i> | Palm, Washingtonia | Spruce - <i>Picea</i> |
| Cherry (ornamental) - <i>Prunus</i> | Hawthorn - <i>Crataegus</i> | Pansy - <i>Viola</i> | Spurge, Japanese* - <i>Pachysandra</i> |
| Chinese evergreen - <i>Aglaonema</i> | Hibiscus - <i>Hibiscus</i> | Peach (ornamental) - <i>Prunus</i> | Statice - <i>Limonium</i> |
| Christmas Cactus - <i>Schlumbergera</i> | Hickory - <i>Carya</i> | Pear (ornamental) - <i>Pyrus</i> | Strawflower - <i>Helichrysum</i> |
| Christmas Trees | Holly - <i>Ilex</i> | Peony* - <i>Paeonia</i> | Sycamore - <i>Platanus</i> |
| Chrysanthemum* - <i>Chrysanthemum</i> | Hollyhock - <i>Alcea</i> | Peperomia - <i>Peperomia</i> | Syngonium - <i>Syngonium</i> |
| <i>Dendranthema</i> | Horsechestnut - <i>Aesculus</i> | Periwinkle - <i>Vinca</i> | Umbrella Tree - <i>Schefflera</i> |
| Coleus - <i>Coleus</i> | Hydrangea - <i>Hydrangea</i> | Petunia - <i>Petunia</i> | Vanda - <i>Vanda</i> |
| Columbine - <i>Aquilegia</i> | Impatiens - <i>Impatiens</i> | Philodendron - <i>Philodendron</i> | Velvetleaf - <i>Abutilon</i> |
| Common Dracaena - <i>Cordylina</i> | Iris - <i>Iris</i> | Phlox - <i>Phlox</i> | Verbena - <i>Verbena</i> |
| Conifers | Ivy, Boston - <i>Parthenocissus</i> | Photinia - <i>Red Tip</i> | Viburnum - <i>Viburnum</i> |
| Cotoneaster - <i>Cotoneaster</i> | Ivy, English - <i>Hedera</i> | Pieris - <i>Pieris</i> | Walnut - <i>Juglans</i> |
| Crabapple (ornamental) - <i>Malus</i> | Jadeplant - <i>Crassula</i> | Pilea - <i>Pilea</i> | Willow - <i>Salix</i> |
| Crape Myrtle - <i>Lagerstroemia</i> | Juniper - <i>Juniperus</i> | Pine - <i>Pinus</i> | Yucca - <i>Yucca</i> |
| Croton - <i>Codiaeum</i> | Kalanchoe - <i>Kalanchoe</i> | Pine, Norfolk Island - <i>Araucaria</i> | Zebra Plant - <i>Aphelandra</i> |
| Cyclamen - <i>Cyclamen</i> | Larkspur - <i>Delphinium</i> | Pittosporum - <i>Pittosporum</i> | Zinnia - <i>Zinnia</i> |
| Dahlia - <i>Dahlia</i> | | | |

* See "Special Instructions" on the next page for additional information on use.