

Dr. Zareen Ahmed
American Cyanamid Co.
P.O. Box 400
Princeton, NJ 08543

Dear Dr. Ahmed:

Subject: Minor Changes
PRE-M 3.3 EC Turf Herbicide
EPA Reg. No. 241-360
Your submission dated Sept. 12, 1994

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable and a stamped copy is enclosed for your records.

Sincerely yours,

Robert J. Taylor
Product Manager 25
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

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PRE - M¹ 3.3 EC Turf Herbicide

An Emulsifiable Concentrate for Use as a Preemergent Weed Control in
Noncropland Areas, Lawns, Turf, Established Landscape Ornamentals
and Christmas Tree Plantations

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine.....37.4%

INERT INGREDIENTS*.....62.6%

TOTAL.....100.0%

(1 gallon contains 3.3 lbs. of pendimethalin)

*Contains Petroleum Distillates

EPA Reg. No. 241-360

**Keep Out of Reach of Children
CAUTION / !PRECAUCION!**

PRECAUCION AL USUARIO

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada
ampliamente.

In case of an emergency endangering life or property involving this product, call collect day or
night Area Code 201-835-3100.

FIRST AID

If in eyes: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Call a
physician if eye irritation persists.

If swallowed: DO NOT induce vomiting. Call a physician or Poison Control Center
immediately.

For skin contact: Wash thoroughly with soap and water. Call a physician if skin irritation
persists.

NOTE TO PHYSICIAN: Because of increased risk of chemical pneumonia or pulmonary
edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under
professional supervision.

See next page for Additional Precautionary Statements.

American Cyanamid Company
Agricultural Research Division
Specialty Products Department
Wayne, NJ 07470 ©1994

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201-835-3100

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS**

CAUTION!

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Use with adequate ventilation.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. DO NOT contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of herbicide application.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in non-crop areas, or in interior plantscapes, or on ornamental gardens or parks, or on golf courses or lawns and grounds.

DO NOT use in manufacturing products for application to turf or ornamentals.

DO NOT apply this product through any type of irrigation system.

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STORAGE AND DISPOSAL

Storage: DO NOT STORE BELOW 40°F. Extended storage at temperatures below 40°F can result in the formation of crystals on the bottom of container. If crystallization does occur, store the container on its side at room temperature (70°F) and rock occasionally until crystals redissolve.

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Observe all cautions and limitations in this label and the labels of products used in combination with **PRE-M 3.3 EC turf herbicide**. The use of **PRE-M 3.3 EC turf herbicide** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 use or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of **FITNESS** or of **MERCHANTABILITY**.

GENERAL INFORMATION

PRE-M 3.3 EC turf herbicide is recommended for preemergence control of grasses and certain broadleaf weed species as they germinate on noncropland areas. **PRE-M 3.3 EC turf herbicide** treatments are most effective in controlling weeds when adequate rainfall is received within 30 days after application.

PRE-M 3.3 EC turf herbicide will not control established weeds. Therefore, areas to be treated should be free of established weeds at the time of treatment, or **PRE-M 3.3 EC turf herbicide** may be used in conjunction with herbicides registered for postemergence use in noncropland areas. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in noncropland areas.

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MIXING INSTRUCTIONS

1. Fill tank one-half to three-quarters full with clean water.
2. Add **PRE-M 3.3 EC turf herbicide** to the partially filled tank while agitating and then fill the remainder of the tank with water.
3. **MAINTAIN CONTINUOUS AGITATION WHILE ADDING PRE-M 3.3 EC turf herbicide AND UNTIL SPRAYING IS COMPLETED.** If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.
4. If **PRE-M 3.3 EC turf herbicide** is to be used in tank mixtures with other registered herbicides, then follow directions on the labels of those products which recommend tank mixing.

SPRAYING INSTRUCTIONS

Uniformly apply with properly calibrated ground equipment in sufficient water per acre to uniformly treat the area with a spray pressure of 25 to 50 psi. Maintain continuous agitation during spraying with good mechanical or bypass agitation.

NONCROPLAND WEED CONTROL

PRE-M 3.3 EC turf herbicide is recommended for preemergence control of most annual grasses and certain broadleaf weeds as they germinate on noncropland areas such as railroad, utility, highway, and pipeline rights-of-way, highway guardrails, delineators, and sign posts, utility substations, petroleum tank farms, pumping installations, fence rows, storage areas, windbreaks, shelterbelts, and other similar areas.

For postemergence control of weeds, tank-mix combinations of **PRE-M 3.3 EC turf herbicide** plus **ARSENAL®** herbicide are recommended. **DO NOT** tank mix with **ARSENAL** in California. Recommended rates for the tank-mix compounds should be determined from the product labels of both **PRE-M 3.3 EC turf herbicide** and **ARSENAL** prior to use.

WEED CONTROL IN AND AROUND ORNAMENTAL PLANTINGS

PRE-M 3.3 EC turf herbicide is recommended for use on the following established ornamentals and ground covers planted in noncropland areas such as highway rights-of-way, utility substations, or similar areas. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **PRE-M 3.3 EC turf herbicide** and roots. Directed sprays where soil and media surfaces are uniformly covered will result in best weed control and ornamental tolerance. **PRE-M 3.3 EC turf herbicide** sprays can be safely applied over-the-top of those plants listed below

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ESTABLISHED ORNAMENTALS

TREES

<u>Common Name</u>	<u>Scientific Name</u>
*Arborvitae, American	<u>Thuja occidentalis</u>
*Arbutus	<u>Arbutus</u> spp.
Ash, Red	<u>Fraxinus pennsylvanica</u>
*Basswood	<u>Tilia</u> spp.
Birch, European Weeping	<u>Betula pendula</u>
Birch, River	<u>Betula nigra</u>
Buckeye, Red	<u>Aesculus pavia</u>
Cedar, Northern White	<u>Thuja occidentalis</u>
Cedar, Red	<u>Juniperus virginiana</u>
Chamaecyparis, Boulevard	<u>Chamaecyparis pisifera</u>
Cherry, Kwanzan	<u>Prunus serrulata</u>
Crabapple	<u>Malus</u> spp.
Crapemyrtle, Common	<u>Lagerstroemia indica</u>
Cryptomeria, Japanese	<u>Cryptomeria japonica</u>
Cypress, Leyland	<u>Cupressocyparis leylandii</u>
Dogwood, Flowering	<u>Cornus florida</u>
Dogwood, Korean	<u>Cornus kousa</u>
Dogwood, Silky	<u>Cornus amomum</u>
*Fir, Balsam	<u>Abies balsamae</u>
Fir, Douglas	<u>Pseudotsuga menziesii</u>
Fir, Fraser	<u>Abies fraseri</u>
Fir, White	<u>Abies concolor</u>
*F. nklinia	<u>Franklinia</u> spp.
Hemlock, Eastern	<u>Tsuga canadensis</u>
Locust, Honey	<u>Gleditsia triacanthos</u>
Magnolia, Saucer	<u>Magnolia soulangeana</u>
Magnolia, Southern	<u>Magnolia grandiflora</u>
Magnolia, Star	<u>Magnolia stellata</u>
Maidenhair Tree	<u>Ginkgo biloba</u>
Maple, Crimson King	<u>Acer platanoides</u>
Maple, Japanese	<u>Acer palmatum</u>
Maple, Red	<u>Acer rubrum</u>
Maple, Sugar	<u>Acer saccharum</u>
Oak, Live	<u>Quercus virginiana</u>
Oak, Pin	<u>Quercus palustris</u>
Oak, Water	<u>Quercus nigra</u>
Oak, Willow	<u>Quercus phellos</u>
Olive	<u>Olea europaea</u>
*Palm, Date	<u>Phoenix</u> spp.
*Palm, Fan	<u>Washingtonia</u> spp.

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*Palm, Pindo
 Peach
 Pear, Bradford
 *Pine, Austrian
 Pine, Italian Stone
 Pine, Loblolly
 Pine, Monterey
 *Pine, Scotch
 *Pine, Virginia
 Pine, White
 Plum, Purple Leaf
 Red Ironbark
 Redcedar, Western
 Redwood, Dawn
 Sequoia, Giant
 Serviceberry
 Sourwood
 Spruce, Colorado Blue
 Spruce, Norway
 *Spruce, White
 Sweet Gum
 Sycamore
 *Trachycarpus
 Tulip tree
 Walnut, Black
 Willow, Weeping
 Yellowwood

Butia spp.
Prunus persica
Pyrus calleryana 'Bradford'
Pinus nigra
Pinus pinea
Pinus taeda
Pinus radiata
Pinus sylvestris
Pinus virginiana
Pinus strobus
Prunus cerasifera
Eucalyptus sideroxylon 'Rosea'
Thuja plicata
Metasequoia glyptostroboides
Sequoiadendron giganteum
Amelanchier laevis
Oxydendron arboreum
Picea pungens
Picea abies
Picea glauca
Liquidambar styraciflua
Platanus occidentalis
Trachycarpus spp.
Liriodendron tulipifera
Juglans nigra
Salix babylonica
Cladrastis lutea

SHRUBS

Common Name

Abelia, Glossy
 Aucuba, Gold
 Azalea
 Bamboo, Heavenly
 Barberry
 Barberry, Japanese
 Bottlebrush, Lemon
 Boxwood, Common
 Boxwood, Japanese
 Bush Honeysuckle
 Camellia
 Capejasmine
 *Cordylone

Scientific Name

Abelia grandiflora
Aucuba japonica
Rhododendron spp.
Nandina domestica
Berberis gladwynensis
Berberis thunbergii
Callistemon citrinus
Buxus sempervirens
Buxus microphylla
Diervilla lonicera
Camellia japonica
Gardenia jasminoides
Cordylone spp.

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*Correa
 Cotoneaster
 Cotoneaster, Bearberry
 Cotoneaster, Rock
 Cypress, Leyland
 Deutzia, Slender
 Eleagnus
 Escallonia
 Euonymus
 *Euonymus, Golden
 Euonymus, Winged
 Firethorn
 Forsythia, Border
 Fuschia, California
 *Gardenia
 Hawthorne, Indian
 Hibiscus
 Holly, Chinese
 Holly, Japanese
 Holly, Savannah
 Holly, Yaupon
 Juniper
 Laurel, Mountain
 *Laurel, Otto Luyken
 Laurel, Schipka
 Laurustinus
 Lavender, English
 Leucothoe
 Leucothoe, Coast
 Lilac, Cutleaf
 Lily-of-the-Nile
 Mahonia
 Mock Orange
 Myrtle, Compact
 Myrtle, Wax
 Nandina
 Oleander
 *Osmanthus
 Palm, European Fan
 *Palm, Mediterranean Fan
 Phlox, Prickly
 Photinia, Fraser
 Pieris, Japanese
 *Pine, Mugo
 Plum, Natal
 Privet, California

Correa spp.
Cotoneaster apiculata
Cotoneaster dammeri
Cotoneaster horizontalis
Cupressocyparis leylandii
Deutzia gracilis
Eleagnus ebbingei
Escallonia fradesii
Euonymus fortunei
Euonymus japonica
Euonymus alata
Pyracantha coccinea
Forsythia intermedia
Zauschneria californica
Gardenia jasminoides
Raphiolepis indica
Hibiscus syriacus
Ilex cornuta
Ilex crenata
Ilex attenuata
Ilex vomitoria
 Juniperus spp.
Kalmia latifolia
Prunus laurocerasus
Prunus schipkanensis
Viburnum tinus
Lavandula angustifolia
Leucothoe fontanesiana
Leucothoe axillaris
Syringa laciniata
Agapanthus africanus
Mahonia aquifolium
Pittosporum tobira
Myrtus communis
Myrica cerifera
Nandina domestica
Nerium oleander
Osmanthus fragrans
Chamaerops humilis
 Chamaerops spp.
Leptodactylon californicum
Photinia X Fraseri
Pieris japonica
Pinus mugo
Carissa grandiflora
Ligustrum ovalifolium

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*Privet, Glossy
 *Privet, Variegated
 Privet, Waxleaf
 Quince, Flowering
 *Rhododendron
 Spice Plant
 Spiraea
 Spiraea, Japanese
 Sweet Bay
 *Verbena, Lemon
 *Wild Lilac
 Xylosma
 Yew
 Yew, Japanese
 Yew, Pine
 Yucca
 Yucca, Weeping

Ligustrum lucidum
Ligustrum sinensis
Ligustrum japonicum
Chaenomeles japonica
Rhododendron spp.
Illicium parviflorum
Spiraea vanhouttei
Spiraea japonica
Laurus nobilis
Aloysia spp.
Ceanothus spp.
Xylosma congestum
Taxus media
Taxus cuspidata
Podocarpus macrophyllus
Yucca filamentosa
Yucca pendula

PERENNIALS

Common Name

Hosta
 Liriope, Green
 Liriope, "Monroe White"
 Liriope, Variegated

Scientific Name

Hosta spp
Liriope spicata
Liriope musari
Liriope muscari "variegata"

GROUND COVER ORNAMENTALS

Common Name

Capeweed
 Daisy, Trailing African
 Gazania
 Iceplant, Large Leaf
 Ivy, English
 Ivy, Geranium
 Mondograss
 Myoporum
 Pachysandra
 Potentilla
 Potentilla
 Rose-of-Sharon

Scientific Name

Arctotheca calendula
Osteospermum fruticosum
Gazania splendens
Carpobrotus edule
Hedera helix
Pelargonium peltatum
Ophiopogon japonica
Myoporum parviflorum
Pachysandra terminalis
Potentilla jackmanii
Potentilla verna
Hypericum calycinum

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PRECAUTION!

Apply only to established plantings.

WEED CONTROL IN CHRISTMAS TREE PLANTATIONS

PRE-M 3.3 EC turf herbicide is recommended for preemergence control of the weed species listed on this label as they germinate in areas planted with the following Christmas trees:

* Austrian Pine	<u>Pinus nigra</u>
* Balsam Fir	<u>Abies balsamæ</u>
Colorado Blue Spruce	<u>Picea pungens</u>
Douglas Fir	<u>Pseudotsuga menziesii</u>
* Scotch Pine	<u>Pinus sylvestris</u>
* Virginia Pine	<u>Pinus virginiana</u>
White Fir	<u>Abies concolor</u>
* White Spruce	<u>Picea glauca</u>

***Do not use in California.**

DO NOT apply **PRE-M 3.3 EC turf herbicide** to Christmas tree seed or nursery beds. Apply **PRE-M 3.3 EC turf herbicide** only to established Christmas tree plantations. **PRE-M 3.3 EC turf herbicide** can be applied directly over the top of established Christmas trees.

PRE-M 3.3 EC turf herbicide will not control established weeds. Therefore, areas to be treated should be free of established weeds at the time of treatment, or **PRE-M 3.3 EC turf herbicide** may be used in conjunction with herbicides registered for postemergence use in Christmas trees. Consult the labels of those herbicides for suggested treatments, rates to be used and precautions or restrictions for use in Christmas trees.

WEED SPECIES CONTROLLED

For preemergence control of the weed species listed, apply **PRE-M 3.3 turf herbicide** at the following rates:

<u>Length of Control</u>	<u>PRE-M 3.3 EC Turf Herbicide</u>
Short-Term Control (2-4 months)	2.4 Quarts/Acre
Long-Term Control (6-8 Months)	4.8 Quarts/Acre

PRE-M 3.3 EC turf herbicide will not control established weeds.

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The efficacy of PRE-M 3.3 EC turf herbicide will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation.

The following grass and broadleaf weeds are controlled by preemergence treatments of PRE-M 3.3 EC turf herbicide at the rates recommended:

GRASSES CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
Barnyardgrass	<u>Echinochloa crus-galii</u>
Bluegrass, Annual	<u>Poa annua</u>
Crabgrass	<u>Digitaria spp.</u>
Crowfootgrass	<u>Dactyloctenium aegyptium</u>
Foxtail, Giant	<u>Setaria faberi</u>
Foxtail, Green	<u>Setaria viridis</u>
Foxtail, Yellow	<u>Setaria verticillata</u>
Goosegrass	<u>Eleusine indica</u>
Itchgrass	<u>Rottboeilla exaltata</u>
Jonsongrass (from seed)	<u>Sorghum halepense</u>
Junglerice	<u>Echinochloa colonum</u>
Lovegrass	<u>Eragrostis spp.</u>
Panicum, Browntop	<u>Panicum fasciculatum</u>
Panicum, Fall	<u>Panicum dichotomiflorum</u>
Panicum, Texas	<u>Panicum texanum</u>
Sandbur, Field	<u>Cenchrus incertus</u>
Signalgrass	<u>Brachiaria platphyllia</u>
Sprangletop, Mexican	<u>Leptochloa uninervia</u>
Sprangletop, Red	<u>Leptochloa filliformis</u>
Witchgrass	<u>Panicum capillare</u>
Woolly Cupgrass	<u>Eriochloa villosa</u>

BROADLEAF WEEDS CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
Burweed, Lawn	<u>Soliva ptersoperma</u>
Carpetweed	<u>Mollugo verticillata</u>
Chickweed, Common	<u>Stellaria media</u>
Chickweed, Mouseear	<u>Cerastium vulgatum</u>
Clover, Hop	<u>Trifolium procumbens</u>
Cudweed	<u>Gnaphalium spp.</u>
Fiddleneck	<u>Amsinckla intermedia</u>
Filaree	<u>Erodium spp.</u>

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Henbit
Knotweed (prostrate)
Kochia
Lambsquarters
Pigweed
Puncturevine
Purslane
Pusley, Florida
Rocket, London
Shepherdspurse
Speedwell, Corn
Smartweed, Pennsylvania
Spurge, Annual
Spurge, Prostrate
Woodsorrel, Yellow
Velvetleaf (Buttonweed)

Lamium amplexicaule
Polygonum aviculare
Kochia scoparia
Chenopodium album
Amaranthus spp.
Tribulus terrestris
Portulaca pteracea
Richardia scabra
Sisymbrium irio
Capsella bursa-pastoris
Veronica arvensis
Polygonum pensylvanicum
Euphorbia spp.
Euphorbia maculata
Oxalis stricta
Abutilon theophrasti

WEED CONTROL IN LAWNS AND TURF

PRE-M 3.3 EC turf herbicide can be used for weed control in lawns and turf.

Turfgrass Types: PRE-M 3.3 EC turf herbicide should only be applied to well established lawns and turf. PRE-M 3.3 EC turf herbicide can be used on the following turfgrasses: Bahiagrass, Bermudagrass, Centipedegrass, Fine Fescue, Kentucky Bluegrass, Perennial Ryegrass, St. Augustinegrass, Tall Fescue, Zoysiagrass.

GENERAL INFORMATION

Use only on well-established turfgrass with a dense and uniform stand.

PRE-M 3.3 EC turf herbicide treatments will not control established weeds. Applications must be made prior to germination of weeds.

Three applications per year may be made. Allow at least 2 months between applications except where indicated under **RATE AND APPLICATION CHART**.

MIXING AND APPLICATION INSTRUCTIONS

Add PRE-M 3.3 EC turf herbicide slowly to partially filled tank (1/2 to 3/4 full) of water while agitating and then fill the remainder of the tank with water. **MAINTAIN CONTINUOUS AGITATION WHILE ADDING PRE-M 3.3 EC turf herbicide AND UNTIL SPRAYING IS COMPLETED.** If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying as needed

Apply with properly calibrated equipment in sufficient water per acre to provide uniform spray distribution. Low pressure (25-50 psi) sprayers are recommended. Avoid application when winds may cause drift

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COMPATIBILITY

PRE-M 3.3 EC turf herbicide is compatible with most commonly used herbicides. When **PRE-M 3.3 EC turf herbicide** is used in tank mixture with another herbicide, refer to each label for rates, methods of application, proper timing, weeds controlled, limitations, and precautions. Always use in accordance with the more restrictive label limitations and precautions. When tank mixing be sure to add **PRE-M 3.3 EC turf herbicide** to the partially filled tank first, mix thoroughly, and then add combination products to the mixture. **DO NOT** apply tank mix combinations unless previous experience indicates the mixture is effective and will not result in application problems or plant injury. **DO NOT** attempt to mix **PRE-M 3.3 EC turf herbicide** directly with liquid fertilizer. Premix one part of **PRE-M 3.3 EC turf herbicide** with two parts water and add this diluted mixture slowly into the tank while agitating.

PRECAUTIONS

Not for use on bentgrass or *Poa annua* (putting greens and tees) or on dichondra, where these are desired species.

This product may cause yellowing and thinning of cool season grasses in winter overseeded turf.

Delay seeding by 4 months and sprigging by 5 months after application. Prior to seeding or sprigging, the soil surface should be disturbed or worked to dilute any remaining chemical residue.

On newly planted areas, wait until the grass has been mowed at least 4 times and has filled in before applying product.

On turf that has been severely thinned due to winter damage, excessive soil moisture, low temperature (below 40°F), scalping, insects, disease, etc., wait until turf has filled in and rooting of stolons is complete before applying.

This product may stain, thus avoid contact with areas such as sidewalks, driveways, etc. If contact with the spray mixture occurs, promptly rinse with water.

PRE-M 3.3 EC turf herbicide treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within 7 days after application.

Weeds Species Controlled: When applied as directed, **PRE-M 3.3 EC turf herbicide** will control the following weed species:

GRASSES CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
Annual bluegrass	<u>Poa annua</u>
Barnyardgrass	<u>Echinochloa crus-galli</u>
Crabgrass	<u>Digitaria spp.</u>
Fall panicum	<u>Panicum dichotomiflorum</u>
Foxtail	<u>Setaria spp.</u>
Goosegrass	<u>Eleusine indica</u>

BROADLEAF WEEDS CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
Common chickweed	<u>Stellaria media</u>
Cudweed	<u>Gnaphalium spp.</u>
Hop clover	<u>Trifolium procumbens</u>
Henbit	<u>Lamium amplexicaule</u>
Knotweed	<u>Polygonum aviculare</u>
Mouseear chickweed	<u>Cerastium vulgatum</u>
Prostrate spurge	<u>Euphorbia supina</u>
Purslane	<u>Portulaca oleracea</u>
Oxalis	<u>Oxalis spp.</u>
Evening primrose	<u>Oenothera biennis</u>

RATE AND APPLICATION CHART

<u>Turf Species</u>	<u>Weeds Controlled</u>	<u>Rates of PRE-M 3.3 EC turf herbicide</u>	<u>Comments</u>
<u>Northern Grasses:</u>			
Fine fescue Kentucky bluegrass Perennial ryegrass Tall fescue	Barnyardgrass Crabgrass Fall panicum Foxtail Hop clover Prostrate spurge Yellow woodsorrel Cudweed	3.6 to 4.8 pts per acre or 1.3 to 1.8 oz. per 1,000 sq. ft.	Apply in Spring before weeds germinate
	Goosegrass Evening primrose	7.2 pts per acre or 2.6 oz. per 1,000 sq. ft.	8/94 Apply in Spring before weeds germinate. Repeat application if necessary in 8 weeks at 3.6 pts. per acre or 1.3 oz. per 1,000 sq. ft.
	Annual bluegrass Common chickweed Mouseear chickweed Henbit	3.6 pts to 4.8 pts per acre or 1.3 to 1.8 oz. per 1,000 sq. ft.	Apply in late Summer to early Fall before weeds germinate
<u>Southern Grasses:</u>			
Bahia Bermudagrass Centipedegrass St. Augustinegrass Tall fescue Zoysiagrass	Barnyardgrass Crabgrass Fall panicum Foxtail Prostrate spurge Yellow woodsorrel Cudweed	4.2 to 4.8 pts per acre or 1.6 to 1.8 oz. per 1,000 sq. ft.	Apply in Spring before weeds germinate. Repeat application if necessary in 8 weeks using 3.6 pts per acre.
	Goosegrass Hop clover Evening primrose	6.4 to 7.9 pts per acre or 2.4 to 2.9 oz. per 1,000 sq. ft.	

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Henbit	3.6 to 4.8 pts
Annual bluegrass	per acre or 1.3
Common chickweed	to 1.8 oz. per
Mouseear chickweed	1,000 sq. ft.

Apply in late Summer
to early Fall
before weeds
germinate.