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PRE - M¹ 3.3 EC Turf Herbicide

An Emulsifiable Concentrate for Use as a Preemergent Weec. Control in
Noncropland Areas, Lawns, Turf, and Established Landscape Ornamentals

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.

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

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For the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under
EPA Reg. No. 241 360

Net Contents:

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**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.

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

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

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

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.

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.

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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.

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.

ESTABLISHED LANDSCAPE ORNAMENTALS

| <u>Common Name</u> | <u>Scientific Name</u> |
|----------------------|-----------------------------|
| Azalea "Coral Bells" | <i>Rhododendron</i> |
| Bamboo, Heavenly | <i>Nandina domestica</i> |
| Birch, River | <i>Betula nigra</i> |
| Bottle Brush | <i>Callistemon citrinus</i> |
| Boxwood, Common | <i>Buxus sempervirens</i> |

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Bush Honeysuckle
 Common Oleander
 Dogwood
 European Fan Palm
 Fir, Balsam
 Firethorn
 Holly, Dwarf Burfordi
 Holly, Japanese Compacta
 Holly "Savannah"
 Hosta
 Juniper, Andorra
 Juniper "Pfitzer"
 Juniper "Sea Green"
 Juniper "Blue Chip"
 Juniper, Savins "Broadmoor"
 Liriope, Green
 Liriope, "Monroe White"
 Liriope, Variegated
 Maple, Red
 Mondo Grass
 Mountain Laurel
 Natal Plum
 Pittosporum
 Privet, Japanese
 Spirea, Bridal Wreath

Diervilla ionicera
Nerium oleander
Cornus cardinal
Chamaerops humills
Abies balsamea
Pyracantha coccinea
Ilex cornutanana
Ilex crenata compacta
Ilex attenuata
Hosta lancifolia
Juniperus horizontalis plumosa
Juniperus chinensis
Juniperus chinensis media
Juniperus horizontalis
Juniperus sabina
Liriope spicata
Liriope muscari
Liriope muscari "Variegata"
Acer rubrum
Ophiopogon japonicum
Kalmia latifolia
Carissa grandiflora
Pittosporum tobira
Ligustrum japonicum
Spirea vanhouttei

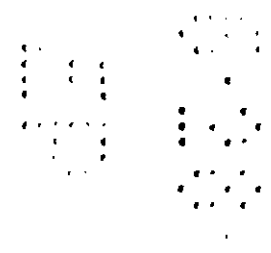
ESTABLISHED GROUND COVERS

Common Name

Scientific Name

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

Arctotheca calendula
Osteospermum fruticosum
Gazania splendens
Hypericum calycinum
Carpobrotus edule
Helix hederia
Pelargonium peitatum
Myoporum parviflorum
Pachysandra terminalis
Potentilla jackmanii
Potentilla verna



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.

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

BROADLEAF WEEDS CONTROLLED

| <u>Common Name</u> | <u>Scientific Name</u> |
|-------------------------|--------------------------------|
| Carpetweed | <i>Mollugo verticillata</i> |
| Chickweed, Common | <i>Stellaria media</i> |
| Chickweed, Mouseear | <i>Cerastium vulgatum</i> |
| Clover, Hop | <i>Trifolium procumbens</i> |
| Cudweed | <i>Gnaphalium</i> spp. |
| Fiddleneck | <i>Amsinckla intermedia</i> |
| Filaree | <i>Erodium</i> spp. |
| Henbit | <i>Lamium amplexicaule</i> |
| Knotweed (prostrate) | <i>Polygonum aviculare</i> |
| Kochia | <i>Kochia scouaria</i> |
| Lambsquarters | <i>Chenopodium album</i> |
| Pigweed | <i>Amaranthus</i> spp. |
| Puncturevine | <i>Tribulus terrestris</i> |
| Purslane | <i>Portulaca pleracea</i> |
| Pusley, Florida | <i>Richardia scabra</i> |
| Rocket, London | <i>Sisymbrium irio</i> |
| Sheperdspurse | <i>Capsella bursa-pastoris</i> |
| Smartweed, Pennsylvania | <i>Polygonum pensylvanicum</i> |
| Spurge, Annual | <i>Euphorbia</i> spp. |
| Spurge, Prostrate | <i>Euphorbia maticulata</i> |
| Woodsorrel, Yellow | <i>Oxalis stricta</i> |
| Velvetleaf (Buttonweed) | <i>Abutilion theophrasti</i> |

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.

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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.

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 | <i>Poa annua</i> |
| Barnyardgrass | <i>Echinochloa crus-galli</i> |
| Crabgrass | <i>Digitaria</i> spp. |
| Fall panicum | <i>Panicum dichotomiflorum</i> |
| Foxtail | <i>Setaria</i> spp. |
| Goosegrass | <i>Eleusine indica</i> |

BROADLEAF WEEDS CONTROLLED

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

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. | 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. |

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|------------------|-----------------|
| Goosegrass | 6.4 to 7.9 pts |
| Hop clover | per acre or 2.4 |
| Evening primrose | to 2.9 oz. per |
| | 1,000 sq. ft. |

| | | |
|--------------------|-----------------|---|
| Henbit | 3.6 to 4.8 pts | Apply in late Summer to early Fall before weeds germinate. |
| Annual bluegrass | per acre or 1.3 | |
| Common chickweed | to 1.8 oz. per | |
| Mouseear chickweed | 1,000 sq. ft. | |

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