

# MAINTAIN<sup>®</sup> CF 125

## A PLANT GROWTH RETARDANT

For turf and associated  
broadleaf weeds,  
trees, shrubs, vines



### ACTIVE INGREDIENTS:

Methyl 2-chloro-9-hydroxyfluorene-9-carboxylate  
Methyl 9-hydroxyfluorene-9-carboxylate  
Methyl 2,7-dichloro-9-hydroxyfluorene-9-carboxylate

INERT INGREDIENTS\*

TOTAL

By Wt.

8.8%

2.1%

1.6%

87.5%

100%

\*Contains petroleum distillates, xylene or xylene range aromatic solvent.  
Contains 1.0 pound per gallon active ingredients.

**KEEP OUT OF REACH OF CHILDREN**

# DANGER PELIGRO

"Si usted no entiende la etiqueta, busque a alguien  
para que se la explique a usted en detalle."

(If you do not understand the label, find someone to explain it to you in detail.)

**SEE SIDE PANEL FOR FIRST AID AND  
ADDITIONAL PRECAUTIONARY STATEMENTS.**

**NET CONTENTS: 1 GALLON**

MANUFACTURED FOR  
REPAR CORPORATION  
P.O. BOX 4321  
SILVER SPRING, MD 20914

EPA Reg. No.: 89361-6

EPA Est. No.: 072465-SC-001

MAINTAIN is registered trademark of REPAR CORPORATION

## FIRST AID

<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eyes open and rinse slowly with a steady, gentle stream of water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li><li>• Call a poison control center or physician for treatment advice.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Wash skin with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or physician for treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a physician or poison control center immediately for treatment advice.</li><li>• Drink promptly large quantities of water.</li><li>• DO NOT induce vomiting unless told to do so by poison control center or physician. Avoid alcohol.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth, if possible.</li><li>• Call a poison control center or physician for treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or physician, or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

**DANGER Corrosive:** Causes irreversible eye damage. Causes skin burns. Do not get in eyes or on skin or clothing. Wear goggles, face shield or safety glasses. Harmful if swallowed. May cause irritation to nose and throat. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

## PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- A. Coveralls over long-sleeved shirt and long pants.
- B. Chemical-resistant gloves, such as barrier laminate or viton.
- C. Shoes plus socks.
- D. Protective eye wear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

## 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 instruction 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 48 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.
- Chemical-resistant gloves, such as barrier laminate or viton.
- Shoes plus socks.
- Protective eye wear.

## STORAGE AND DISPOSAL

1. **PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Store above 4°C.
2. **PESTICIDE STORAGE:** Store in a cool, dry area away from heat or open flame.
3. **PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. 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.
4. **CONTAINER DISPOSAL:** "Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and local procedures."

## 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

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## 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 through any irrigation system.

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.

**IMPORTANT:** This material is not selective in action and may affect all types of vegetation. Care should be taken to confirm the use or application to the particular area intended to be treated, and to avoid its contact with crops and other desirable plants. Not to be used on food or feed crops. Keep livestock off treated area. Do not feed treated vegetation to livestock. Do not treat woody plants used for food production. Use only on noncrop land. Mechanical equipment should be thoroughly cleaned after use. **APPLY THIS PRODUCT ONLY AS SPECIFIED ON THE LABEL.**

**GRASS SPECIES EFFECTIVELY RETARDED WITH MAINTAIN CF125:** Annual bluegrass, Bahia grass, creeping red fescue, crested wheatgrass, Kentucky bluegrass, Kentucky 31 fescue, quackgrass, ryegrass, smooth brome, tall wheatgrass, timothy.

**BROADLEAF WEED SPECIES EFFECTIVELY CONTROLLED WITH MAINTAIN CF125:** Blackmedic, bladder campion, chickweed, chicory, cinquefoil, clovers, cudweed, dandelion, docks, fleabane, hawksbear, kudzu, oxalis, plantain, ragweed, yarrow, and similar miscellaneous species.

### GRASSES, BROADLEAF WEEDS

**WHERE TO USE:** MAINTAIN CF125 is recommended for use on areas where regular mowing and trimming maintenance are difficult; such as, under security fences and guard rails, around sign posts, delineator posts, culverts, right of way, median strips, and ditch or steep banks.

**WHEN TO USE:** On established turf and associated broadleaf weeds, best results are obtained when treatments are applied in the spring when grasses are just beginning to green up and are 2 to 3 inches high, or 3 to 5 days after first spring mowing in situations where ample rainfall promotes rapid and sustained summer regrowth. Applications generally maintain the turf by inhibiting the development of seed and retarding vegetative growth. The general appearance of the turf is enhanced by an extended period of dark green color of the grass and by excellent control of broadleaf weeds. Applications may be made throughout the growing season for effective broadleaf weed control.

**RATES:** On established turf and associated broadleaf weed species, 2 to 3 gallons of MAINTAIN CF125 (2 to 3 pounds of active material) per acre in 50 gallons of water are recommended. Even application to insure uniform wetting of the grass and herbaceous weed foliage is essential for most effective results. Continue agitation during the spraying operation. Do not mow turf weeds until all evidence of growth retardant has disappeared. Early mowing will greatly reduce the effectiveness of growth retardant treatment.

**TREES, SHRUBS, VINES USES:** MAINTAIN CF125, applied to the foliage, effectively retards the growth of most trees, shrubs, and vines.

**WHERE TO USE:** On trees, shrubs, and vines growing under utility lines, as screens or ground cover and adjacent to highways, in hedge rows and parks.

**WHEN TO USE:** A foliage spray should be made after a flush of growth or after pruning and the new leaves have fully developed so that the plant is in the desired density, size, and shape. Tender new growth may curl or twist. Flowering species treated before bud expansion may have a blossom reduction.

Applications generally maintain woody plants by inhibiting terminal growth. MAINTAIN CF125 will effectively retard woody plant growth for two months (on rapidly growing, and frequently trimmed hedges) to six months on vines such as Algerian Ivy and up to a year or more on deciduous hardwoods.

Gymnosperms (conifers, junipers, etc.) must be treated before buds expand in order to prevent distortion of new growth. Treatment when candles are tender often causes developing branches to droop.

**RATES: 1 pint/100 gal. of water = 1 tsp./gal = 150 ppm**

	pts/100 gal		pts/100 gal		pts/100 gal
<b>Deciduous Hardwood:</b>					
Alder Red	2 - 6	Ash	1	Cottonwood Black	6 - 8
Elm Siberian	1	Maple Big Leaf	8	Maple Vine	8
Maple Silver	4 - 8	Willow Golden	2 - 6		
<b>Gymnosperms:</b>					
Fir	$\frac{1}{3}$	Juniper	$\frac{1}{3}$ - 1	Pine Austrian	$\frac{1}{3}$ - 1
Liquidambar (sweet gum)*	2	Pine Lodgepole	$\frac{1}{3}$ - 1	Spruce Sitka	$\frac{1}{3}$ - 1
Redwood	$\frac{1}{3}$ - 1				
<b>Vines and Ground Cover:</b>					
Ice Plant	4	Ivy Algerian	8	Ivy English (Hahns)	1 - 2
Kudza	6 - 8	Periwinkle	1		
<b>Other Trees and Shrubs:</b>					
Abelia	1 - 2	Acacia	1 - 3	Bamboo Heavenly	1
Calliandra	$\frac{1}{2}$ - $\frac{3}{4}$	<b>Carolina Laurel Cherry</b>	2	Chilian Guava, Ugni	1
Cotoneaster spp.	1	Grape Myrtle	2	Elaeagnus	1 - 2
Escallonia spp.	1	Euonymus	1 - 2	Hibiscus	$\frac{1}{3}$ - 1
Honeysuckle	$\frac{1}{2}$ - 1	Indian Hawthorne	2	Jasmine	1 - 2
Melaleuca	1	Oleander	8	Ornamental Citrus**	2
Ornamental Olives	2	Photinia spp***	1	Plumbago	1
Privet	$\frac{1}{2}$ - 1	Pyracantha	2	Xylosma	1

Rates: 1 pint/100 gal. of water = 150 ppm.

\*Liquidambar (sweet gum): To eliminate seed balls, spray in the late dormant period before the buds swell. Entire coverage is needed.

\*\*Ornamental Citrus: To prevent fruit set, spray 1 to 2 months before bloom.

\*\*\*Photinia spp.: Spray at time of pruning only.

**CHEMIGATION:** Do not apply this product through any type of irrigation system.

### FOR BARK BANDING TO INHIBIT TREE GROWTH

**PREPARING A SPRAY MIX:** Add 1 gallon of MAINTAIN CF125 to 11 gallons of a mixture containing 70% oil carrier (such as No. 2 diesel) plus 30% toluene. The resulting spray mix will contain approximately 1% active ingredient. Frequent agitation of the mix is necessary. An emulsifier mixture containing 9 parts of Span 80™ and 1 part of Tween 80™ has been effective in stabilizing the spray mix (use 1 gallon of emulsifier mixture to each gallon of MAINTAIN CF125 and 10 gallons of oil).

™ Span 80 and Tween 80 - Trademark of ICI United States Inc.

### APPLICATION OF SPRAY MIX

1. Apply to trunk or scaffold branch a band width determined by multiplying the diameter of the trunk or branch and the species factor.
2. Three-gallon hand carried sprayers are adequate.
3. DO NOT apply to trees which have been heavily pruned (50% or more of foliage removed)
4. DO NOT TREAT small or diseased trees or trees under stress.
5. Pine trees must have developed a set of full new leaves and also must not be in candle stage.
6. Deciduous trees must have a minimum of four or five full leaves on terminals before treatment.

Species:	Species Factor:	Species:	Species Factor:
Abies concolor, White fir	1	Acer saccharinum, Silver maple	1 - 2
Ailanthus altissima, Tree of heaven	2	Arbutus menziesii, Madrone	2 - 3
Eucalyptus globulus, Blue gum	8	Eucalyptus sideroxylon, Ironbark	6
Ficus nitida, Laurel fig	4	Fraxinus spp., Ash species	2
Grevillea robusta, Silk Oak	1/4	Laurus nobilis, Sweet bay	1
Liquidambar styraciflua, Sweet gum	1	Nerium oleander, Oleander	6
Pinus canariensis, Canary Island pine	1	Pinus halapensis, Aleppo pine	1/2
Pinus radiata, Monterey pine	1	Pistacia chinensis, Chinese pistache	3
Pseudotsuga menziesii, Douglas fir	1	Quercus spp., Oak species	2 - 3
Salix Babylonica, Weeping willow	2	Schinus molle, California pepper	1/4
Schinus terebinthifolius, Brazilian pepper	1/4	Sequoia sempervirens, Coast redwood	2
Sorbus aucuparia, Mountain ash	2	Tamarix aphylla, Athel tree	2
Ulmus parvifolia, Paperbark elm	2	Ulmus pumila, Siberian elm	1
Umbellularia californica, California bay	2		

**IMPORTANT NOTICE** - Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label under normal conditions of use, **but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.**