

Reg # 35512-30

PM-21

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ACCEPTED
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HOW TO USE PINE-NU

PINE-NU

1. First identify and tag the trees to be treated. PINE-NU is an EPA approved non-residual contact type herbicide containing glyphosate (Roundup®) and spray as recommended to kill all grass and weeds within a radius of 8 feet of the tree trunk and preferably to the drip line of tree.

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- Next replace the grass with a 2 to 3 inch bed of pine straw. This mulch eliminates the need for mowing the area which causes compaction of the soil, helps to maintain a lower soil temperature for surface roots and inhibits weed and grass growth which competes for moisture.
- Any high pressure irrigation equipment should not be allowed to hit the tree trunks since this may remove bark and provide a damage point of entry for pests.
- PINE-NU is completely blended and ready-to-use and may be easily applied by pouring from a sprinkler-can or directly from the product container.
- Apply 5 gallons of PINE-NU evenly to the prepared straw area beneath the tree canopy (approximately 200 sq.ft.). Make 3 to 4 application per year, spaced every 3 or 4 months. This provides a steady supply of nutrients (iron, Manganese and Sulfur) and 0.15 lb. to 0.20 lb. active metalaxyl fungicide per 200 sq.ft. per year to combat any soil borne phytophthora root rot and pythium which may have attack the weakened root systems and is contributing to the pine tree's growth "decline".
- PINE-NU lowers the soil pH in the surface root zone area which is desirable for healthy pine tree growth.
- The total program should include the application of an EPA approved nematicide ("Nemacur") applied according to instructions where root nematodes are known to have attack the pine tree roots.
- The trunk and the base area of the tree should also be inspected for termites or wood boring insects and if present an EPA approved insecticide, such as Lindane, should be applied according to instructions for bark treatment.
- During drought periods, all trees under treatment should be irrigated.

READY-TO-USE A SYSTEMIC SOIL DRENCH FOR THE TREATMENT OF PINE TREE "DECLINE"

CONTAINS LIQUID CHELATED IRON, MANGANESE AND SULFUR PLUS METALAXYL SYSTEMIC FUNGICIDE FOR CONTROL OF PHYTOPHTHORA ROOT ROT AND PYTHIUM.

ACTIVE INGREDIENT:

*Metalaxyl: (N-(dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester 0.1%

INERT INGREDIENT: - - - - - 99.9%
Total 100.0%

*Metalaxyl is a systemic fungicide and may be referred to as Subdue® a Registered Trademark of the Ciba Giegy Corporation.

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENTS OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists. **IF ON SKIN:** Wash affected area with soap and water.

See Side/Back Panel For Additional Precautionary Statements

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NET CONTENTS 5 GALLONS

HOWARD FERTILIZER COMPANY

ORLANDO, FLORIDA 33859-3800

MINIMUM GUARANTEED ANALYSIS

Iron as Fe	4.00%
Manganese as Mn	0.15%
Sulfur as S(Combined)	3.50%
Derived from Iron Sulfate, Manganese Sulfate	
Chelating Agent: Glucoheptonic Acid	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating or smoking.
ENVIRONMENTAL HAZARDS
 Keep out of lakes, streams and ponds. 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, use only as directed. Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL
 Store above freezing. Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place out of reach of children.
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: (Metal) Triple rinse (or equivalent) Then offer for recycling or reconditioning, or puncture & dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. (Plastic) Triple rinse (or equivalent). Then offer for re-cycling of re-conditioning, 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.

GENERAL INFORMATION
 Valuable trees such as Slash Pine, Sand Pine and other conifer species which are also of ornamental value to golf courses, or other municipal and recreational areas often decline in growth due to environmental changes inflicted by the compaction of soil by mowing equipment, by alkaline soils, nutrient deficiencies, and from attack by insects and root rot diseases. Considering their value it is important to attempt a treatment of the "growth decline" since many trees may be saved with unusual success by initiating a "cultural /chemical program" to revitalize and sustain their growth.

PINE-NU can be used as an important segment of a program to revitalize these weakened trees. It is ready-to-use as a soil drench for the treatment of conifers in early to mid stages of decline and contains liquid chelated iron, manganese, sulfur nutrients and metalaxyl, a systemic fungicide for control of phytophthora root rot and pythium which are common diseases that may attack the root systems of weakened trees. A 10 point PINE-NU program follows.

NOTICE: Buyer and user assumes all risk and liability of use, storage and/or handling of this material not in accordance with the terms of this label. (10-01-90)