

# Tre-Hold®

## SPROUT INHIBITOR A-112

Controls Sprout or Sucker Growth on Apple, Pear, Olive and Ornamental Woody Plants.  
For Commercial/Ag Use: Not For Residential Use.

### ACTIVE INGREDIENT:

1-Naphthaleneacetic acid, ethyl ester . . . . . 15.1%

**INERT INGREDIENTS:** . . . . . 84.9%

**TOTAL** . . . . . 100.0%

\*This product contains petroleum distillate

1-Naphthaleneacetic Acid (NAA) equivalent is 1 lb/gal. or 13.2% by weight.

## KEEP OUT OF REACH OF CHILDREN WARNING

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.)

### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give any liquid to the person.</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-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

### EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:  
Transportation: CHEMTREC.....1-800-424-9300  
Other: AMVAC.....1-323-264-3910

### NOTE TO PHYSICIAN

If ingested: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Causes skin irritation and moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful or fatal if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of food.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

- coveralls
- long sleeved shirt and long pants
- chemical resistant gloves such as barrier laminate or viton
- chemical-resistant footwear plus socks
- protective eyewear
- chemical resistant headgear for overhead exposure
- chemical resistant apron when cleaning equipment, mixing or loading.

Discard clothing and 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.

### 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, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas. Do not use in a greenhouse.

Do not store near extreme heat, open flame, or sources of ignition.

EPA Reg. No. 5481-429  
EPA Est. No. 5481-CA-1

Net Contents:  
As Marked on Container



4100 E. Washington Blvd.  
Los Angeles, CA 90023, USA  
1-323-264-3910 • www.amvac-chemical.com

## 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.

Periodic pruning to maintain line clearance is one of the major expenses of public utilities. Tre-Hold® Sprout Inhibitor A-112 in combination with proper pruning techniques reduces the number of new sprouts on many tree species and provides a longer period between prunings.

Do not use the same spraying equipment for other purposes unless thoroughly cleaned. Do not apply Tre-Hold® Sprout Inhibitor A-112 through any type of irrigation system.

Many trees sprout vigorously from the rootstock, base of the trunks, scaffold limbs, and around pruning cuts on limbs. Tre-Hold® Sprout Inhibitor A-112 prevents or inhibits vegetative bud development in woody plants after pruning. Tre-Hold® Sprout Inhibitor A-112 reduces resprouting on bearing and non-bearing apple, olive and pear trees and on ornamental olives, crabapples and ornamental woody plants.

Tre-Hold® Sprout Inhibitor A-112 is formulated for dilution in water and interior latex paint. After mixing, the solution should be applied to pruning cuts on the scaffold limbs, base of trunks and on rootstock suckers to control resprouting. Thorough coverage of treated areas is essential for most effective sprout control.

### 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 instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. 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 12 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
- chemical-resistant gloves such as barrier laminate or viton
- chemical resistant footwear plus socks
- protective eyewear
- chemical resistant headgear for overhead exposure

### MIXING DIRECTIONS

Tre-Hold® Sprout Inhibitor A-112 must be diluted before use.

### NEW PLANTINGS

For use on newly established plantings of apples and pears, dilute Tre-Hold® Sprout Inhibitor A-112 to a 0.5% a.i. solution.

#### EXAMPLES FOR PREPARATION OF APPROXIMATELY 0.5% A.I. (EXPRESSED AS NAA ACTIVE INGREDIENT)

AMOUNT OF TRE-HOLD® SPROUT A-112	AMOUNT OF WATER	TOTAL VOLUME
1.25 fl.oz.	31.0 fl.oz.	1 quart
5.0 fl.oz.	123.0 fl.oz.	1 gallon
2.0 gallons	48 gallons	50 gallons

### ESTABLISHED PLANTINGS

The following dilution volumes are examples for typical small and large scale needs. For most uses on established plantings, Tre-Hold® Sprout Inhibitor A-112 is diluted to a 1% a.i. concentration with water.

EXAMPLES FOR PREPARATION OF APPROXIMATELY 1% A.I. (EXPRESSED AS NAA ACTIVE INGREDIENT)		
AMOUNT OF TRE-HOLD® SPROUT A-112	AMOUNT OF WATER	TOTAL VOLUME
2.5 fl.oz.	29.5 fl.oz.	1 quart
10.0 fl.oz.	118.0 fl.oz.	1 gallon
4.0 gallons	46 gallons	50 gallons

For marking purposes, white latex paint may be substituted for an equal volume of water as indicated below. The white paint also provides protection from sun scald damage in thin barked trees or shrubs.

EXAMPLES FOR PREPARATION OF APPROXIMATELY 1% A.I. (EXPRESSED AS NAA ACTIVE INGREDIENT) WITH LATEX PAINT		
AMOUNT OF TRE-HOLD® SPROUT A-112	AMOUNT OF LATEX PAINT	ADD WATER TO MAKE TOTAL OF
2.5 fl.oz.	4 to 15 fl.oz.	1 quart
10.0 fl.oz.	15 to 60 fl.oz.	1 gallon
4.0 gallons	5 to 20 gallons	50 gallons

Use the higher rate of white latex paint where bark damage from sun scald is likely to be most severe. Be sure the paint used is not harmful to trees.

### APPLICATION INSTRUCTIONS - APPLES AND PEARS NEW PLANTINGS

Apple and pear trees, healthy, vigorous and free from stress, may be treated after planting in the grove when the trees show established growth. Remove sprouts and follow the application procedures described below. Use only 0.5% dilution of Tre-Hold® Sprout Inhibitor A-112. Do not apply to non-established or stressed trees as injury and stand loss will result.

### ESTABLISHED PLANTINGS SCAFFOLD LIMBS

Prune existing sprouts and treat during the dormant season. Thoroughly cover area where existing sprouts were removed but restrict treatment to the cut surfaces and 2 to 3 inches of the surrounding area. Apply Tre-Hold® Sprout Inhibitor A-112 with a brush or small hand held pump-up type sprayer. Use low pressure (not to exceed 25 psi) to avoid fine spray particles from drifting or splashing on surrounding fruiting wood or buds. The use of interior white latex paint is required to help reflect sunlight and cut down on high bark temperatures.



Do not treat scaffold limbs after bud activity starts in the Spring. There has been some fruit size reduction on Golden Delicious and Anjou pears from excessive treatments to scaffold limbs on older weaker trees. To minimize the chance of injury, limit treated areas to 10 percent of the total bark area of the tree. Do not treat weak trees, and do not repeat applications on the same tree for at least one year.

### TRUNK AND BASAL SPROUTS AND ROOT SUCKERS

Prune existing sprouts and apply Tre-Hold® Sprout Inhibitor A-112 during the dormant season prior to green tip stage or during the summer pruning season when the new shoots are 6 to 12 inches in height. The later applications have been the most effective. On bearing trees do not treat suckers during bud swell, bloom or fruit set. This period is from the start of growth to 4 weeks after petal fall. Application during this time can result in excessive thinning.

## LIMITED WARRANTY AND DISCLAIMER

Apply Tre-Hold® Sprout Inhibitor A-112 with a brush, small hand-held sprayer or back pack sprayer. For large projects, a power operated herbicide type spray equipment with attached handgun or trunk directed nozzle can be used. Maintain low spray pressure (not to exceed 25 psi) to avoid spray drift of fine spray particles.

### PRUNING CUTS ON LARGE LATERAL OR UPRIGHT LIMBS

To control sprouts in the vicinity of pruning cuts, paint the 1% dilute mixture of Tre-Hold® Sprout Inhibitor A-112 on the bark in the immediate vicinity of the cut. Treat several inches of bark around the cut. Apply with a brush, small hand-held sprayer or back pack sprayer. Do not allow the mixture to splash or drip onto other parts of the tree. Treat only in the dormant season prior to bud activity. Spray application is not recommended, due to the possibility of spray contacting fruit buds.

### OLIVES - TRUNK BASAL SPROUTS AND ROOT SUCKERS

(Do not treat scaffold branches or pruning cuts on olive trees). Prune off existing sprouts or suckers and allow new sprout to regrow. Treat with dilute spray of Tre-Hold® Sprout Inhibitor A-112 when sprouts are not more than 10 inches tall. Apply with a brush, small hand-held sprayer or back pack sprayer. Tre-Hold® Sprout Inhibitor A-112 will control new sprout growth of olives, but will not control old woody sprouts. Do not treat during olive bloom or fruit set. Limit treated areas to 10% of the plants total bark surface.

### ORNAMENTAL WOODY PLANTS

#### CONTROLS REGROWTH OF TREES SPROUTS FOLLOWING PROPER PRUNING

Tre-Hold® Sprout Inhibitor A-112 prevents and inhibits vegetative growth in woody plants. After proper pruning, prepare 1% dilute mixture with/or without white latex paint according to the mixing directions. Apply with a brush, small hand held sprayer or back pack sprayer. Tre-Hold® Sprout Inhibitor A-112 is effective on many ornamental flowering and shade tree such as:

American Elm	Crepe Myrtle	Sugar Maple
Chinese Elm	Pyracanthas	Sycamore
Coast Redwood	Red Maple	Water Oak
Crabapples	Silver Maple	Willow spp. (Black Marsh)

For most effective control of resprouts prune to a lateral branch (drop crotch pruning), and apply sprays after growth has begun. Do not leave stubs and avoid severe trimming. Treatment of all cuts is important.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not use or store near heat or open flame.

**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.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

The manufacturer warrants (a) that this product conform to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.**

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AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

Tre-Hold® is a registered trademark of Amvac Chemical Corporation.

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