

Tre-Hold® A-112

SPROUT INHIBITOR

Controls Sprouting or Sucker Growth on Avocados, Mamey sapote, Mangoes, Olives, Pomegranate, and Woody Ornamental Plants

For Commercial/Agricultural Use Only: Not Intended 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
CAUTION

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	
If swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
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: For Medical Emergencies phone 888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® 800-424-9300 For Product Use Information phone: AMVAC® 888-462-6822	
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.	

EPA Reg. No. 5481-429

EPA Est. No. _____

Net Contents: _____



AMVAC Chemical Corporation
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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. 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 (PPE)

Some materials that are chemical-resistant to this product are made of barrier laminate, butyl rubber, nitrile rubber or Viton®. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:
Long-sleeved shirt and long pants,
Shoes plus socks, and
Chemical-resistant gloves.

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 exist, 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/PPE 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 **when disposing of equipment wastewater or rinsate**. 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.

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 olive, avocado, mamey sapote and mango trees, on ornamental olives, and woody ornamental plants.

Tre-Hold Sprout Inhibitor A-112 is formulated for dilution in water or mixed with 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.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product. Do not apply by spray when wind speeds are greater than 10 mph at the application site. Use only medium or coarse spray nozzles or droplets.

For broadcast use, the maximum application rate is 0.11 pound active ingredient per acre of NAA equivalent for all uses, except olive trees which may use up to 0.33 pound active ingredient per acre of NAA equivalent. The minimum interval between applications is to be no less than 5 days.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 (REI). 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 REI of 12 hours.

Personal Protective Equipment (PPE) required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Shoes plus socks,
- Chemical-resistant gloves made of any waterproof material.

MIXING DIRECTIONS

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

NEW PLANTINGS

For use on newly established plantings of, 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 INHIBITOR A-112	AMOUNT OF WATER	TOTAL VOLUME
1.25 fl. oz.	30.75 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	AMOUNT OF WATER	TOTAL VOLUME

TRE-HOLD SPROUT INHIBITOR A-112		
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 INHIBITOR A-112	AMOUNT OF LATEX PAINT	ADD WATER TO MAKE TOTAL VOLUME 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

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 a 1% solution 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. Do not apply more than 4.25 gallons of spray mix per acre per year.

Tre-Hold Sprout Inhibitor A-112 Use Directions for Avocado, Mamey Sapote and Mango trees

Use Tre-Hold Sprout Inhibitor A-112 on pruned branches or limbs to maintain overall tree architecture or on trees which have been severely cut back (stumped).

Dosage: Tre-Hold Sprout Inhibitor A-112 should be diluted in water or a mixture of water and white latex paint to make an approximate 1.1% (w/w) final concentration of active ingredient.

Tre-Hold Sprout Inhibitor A-112 should first be added to water and then the solution added to the latex paint. Mix well.

DIRECTIONS TO PREPARE A 1.15% A.I. (NAA) WHITE LATEX PAINT MIXTURE		
AMOUNT OF TRE-HOLD SPROUT INHIBITOR A-112	AMOUNT OF WHITE LATEX PAINT	ADD WATER TO MAKE TOTAL VOLUME OF
2.8 fl. oz.	4-15 fl. oz.	1 quart
11 fl. oz.	15-60 fl. oz.	1 gallon
4.5 gallons	5-20 gallons	50 gallons

Method of Application: Prune branches and remove excessive sprouts or dead and diseased limbs. When a tree is being stumped or severely pruned ensure proper cuts are made at the right angles. Apply TreHold Sprout Inhibitor A-112 mixture with a small hand-held sprayer equipped with a directed nozzle, brush, sponge or paint roller or other suitable equipment within a few days after pruning operations have been completed. Do not allow the mixture to splash or drip on to other parts of the tree at the time of application.

Frequency/Timing of Applications: Two applications may be made per year with a minimum of 45 days between treatments. The Preharvest Interval (PHI) is 10 days.

FOR CONTROLLING POMEGRANATE BASAL TRUNK SPROUTS AND ROOT SUCKERS

Apply Tre-Hold Sprout Inhibitor A112 as a directed spray to the lower tree trunks and immediate surrounding area. Best results are obtained when first treatment is made after the trees resume growth and suckers become visible (usually between February to May in the San Joaquin Valley). For best results, treat early before suckers attain 12" in length. Dilute Tre-Hold Sprout Inhibitor A112 in the correct amount of water to prepare a 1% A.I. solution (See dilution chart). Make applications in a diluent volume of up to 44 g.p.a. using a coarse nozzle sprayer directed to the base of the trees. If needed, re-treatment can be made after 60 days. The Pre-harvest Interval (PHI) is 45 days. Aerial applications are prohibited.

WOODY ORNAMENTAL PLANTS

CONTROLS REGROWTH OF TREE SPROUTS FOLLOWING PRUNING OPERATIONS

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 trees such as:

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

For most effective control of re-sprouts, prune to a lateral branch (drop crotch pruning), and apply Tre-Hold Sprout Inhibitor A-112 after growth has begun. Do not leave stubs and avoid severe trimming. Treatment of all cuts is important to obtain consistent results. Do not apply more than 1.5 gallons of spray mix per acre per application or 4.5 gallons of spray mix per acre per year.

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 STORAGE: Do not store in the same area as food or feed. Do not freeze.

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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows; Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) 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. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.

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SPECIMEN