

# PEST OUT®

Broad Spectrum Miticide / Insecticide  
Control Mites, Thrips And Aphids



## Product Information

For control of various mites and insects on many types of crops such as melons, squash, tomatoes, tree crops, grapes, cucumbers and all sorts of flowers. **PEST OUT** is applied as a foliar spray and should be a great addition to a well managed IPM program. It is made from 100% organic components.

### ACTIVE INGREDIENTS

Cottonseed Oil.....	40%
Clove Oil.....	20%
Garlic Oil.....	10%

**OTHER INGREDIENTS:** .....30%

Sodium Bicarbonate, Oleic Acid, Lauric Acid, Water

**TOTAL** .....100%

**KEEP OUT OF REACH OF CHILDREN**

**SHAKE WELL BEFORE USE**

MANUFACTURING UNDER U.S. PATENT.

This product ingredients are exempt from registration with the Federal EPA under section 25 (b) of FIFRA. **PEST OUT** has not been registered with the Environmental Protection Agency. JH Biotech, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act.

**NET CONTENTS:** 2.5 Gallons (9.45 liters)

Weight per Gallon: 8.4 lb (3.8 kg) @ 68°F

Lot #:



## Directions and General Recommendations

### APPLICATION RATE TABLE

Mix 1 gallon of **PEST OUT** concentrate per 100 gallons of spray water. Apply enough to cover the entire surface of infested tissues.

### FINAL MIX VOLUME.....FL. OZ.

1 Gallon.....	1.5
5 Gallons.....	7
10 Gallons.....	14
25 Gallons.....	32

Apply no more than once in a 7 day period. Repeat application as necessary. Coverage is essential to establish control. The use of a spreader/sticker may increase contact and efficacy of treatment.

Check compatibility by spraying a small number of plants before initial applications.

### PRECAUTIONARY STATEMENTS

Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

### PERSONAL PROTECTIVE WORK

**CLOTHING:** Applicators and other handlers of this product must wear: Long sleeved shirt and pants, shoes and socks, protective eyewear and gloves.

### LIMITED WARRANTY

Manufacturer or seller makes no warranty, whether expressed or implied, concerning the use of this product other than for the purposes indicated on the label. Neither manufacturer nor seller shall be liable for any injury or damage caused by this product due to misuse, mishandling or any application not specifically described on the label.

### FIRST AID

#### IF SWALLOWED

- ▶ Call a Physician or Poison Control Center.
- ▶ Drink one or two glasses of water.
- ▶ Do not induce vomiting.
- ▶ If person is unconscious, do not give anything by mouth or induce vomiting.

#### IF IN EYES

- ▶ Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes.
- ▶ Get medical attention if irritation persists.

#### IF ON SKIN

- ▶ Wash with plenty of soap and water.
- ▶ Get medical attention if irritation persists.

**CAUTION: PEST OUT CONTAINS OIL AND MAY LEAVE MARKS ON SOME FRUITS, ESPECIALLY PEARS. TEST THE PRODUCT IN SMALL AREA BEFORE SPRAYING LARGE AREAS.**

**JH Biotech Inc.**

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# Pest Out<sup>®</sup>

Broad Spectrum Miticide/Insecticide Controls Mites and Insects

JH Biotech, Inc. Ventura, Ca TEL: (800) 428-3493

www.jhbiotech.com



NOTICE: Before using this product, read the entire Statement Of Practical Treatment, Warranty, Directions for Use, and Storage and Disposal Instructions as well as any Supplemental Labeling.

## ACTIVE INGREDIENTS:

Cottonseed Oil..... 40%

Clove Oil..... 20%

Garlic Oil..... 10%

## OTHER INGREDIENTS: .... 30%

Oleic Acid, Lauric Acid, Sodium Bicarbonate, Water

**TOTAL ..... 100%**

## NET CONTENTS:

1 Pint (0.47 liter)

2.5 Gallons (9.45 liters)

5 Gallons (18.9 liters)

1 Gallon (3.78 liters)

2 x 2.5 Gallons (18.9 liters)

55 Gallons (207.9 liters)

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### U.S. Patented and Patent Pending CAUTION

#### KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS

Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a Physician or Poison Control Center. Drink one or two glasses of water. Do not induce vomiting. If person is unconscious, do not give anything by mouth or induce vomiting.

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF INHALED:** Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers should wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### DIRECTIONS FOR USE

Read entire label before using this product. 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.

#### SHAKE WELL BEFORE USE.

#### USE DILUTION IMMEDIATELY.

#### DO NOT STORE DILUTED SOLUTION.

Pre-harvest Interval: Pest Out may be applied to all crop types listed in the APPLICATION RATE TABLE at any time, up to and including the day of harvest. There is no pre-harvest interval.

For early entry to treated areas that involves contact with anything that has been treated such as plants, soil, or water, wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

## NOTICE TO BUYER

To the extent permitted by law, all conditions and warranties, and statutory or other rights of action which buyer or any other user may have against JH Biotech, Inc. or Seller are hereby excluded. JH Biotech, Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by JH Biotech, Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. JH Biotech, Inc.'s liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price thereof.

## LIMITED WARRANTY

Manufacturer or seller makes no warranty, whether expressed or implied, concerning the use of this product other than that for the purposes indicated on the label. Neither manufacturer nor seller shall be liable for any injury or damage caused by this product due to misuse, mishandling, or any application not specifically described on the label.

## APPLICATION INSTRUCTIONS

Pest Out is a pesticide for use against the mite and insect pests listed in the APPLICATION RATE TABLE. See Supplemental Labeling for specific uses on food and ornamental crops. The pest must come in contact with Pest Out in order to be affected. Always follow these directions:

- Testing to date indicates Pest Out may cause injury to some plant species at sensitive stages of growth. Open blooms of certain plants can also be damaged. Do not apply to stressed or wilted plants, or to newly transplanted material prior to root establishment.
- Pest Out has not been tested on all plant varieties or in all tank mixes. Before applying to a larger number of plants, test Pest Out on a small number of plants for potential damage.
- We recommend making no more than two consecutive applications of Pest Out. After two applications, rotate to an alternative chemistry for at least two applications.
- Apply early in the morning or late afternoon when the temperature is lower. Spray directly onto pest(s). Make applications before noticeable foliar damage occurs.
- Thorough spray coverage is essential for good pest control. Applications should be repeated at an interval sufficient to maintain control, depending upon plant growth, pest pressure and weather conditions after spraying.
- Local conditions may affect the use of Pest Out. Consult your local State Extension Specialist for specific recommendations related to local crop protection problems.
- Spray water/spray tank solutions should not be below pH 3.0 or above 8.0. Pest Out works best in a pH range of 3.5 to 7.5. Use outside this range may cause product degradation. If necessary, buffer water to near neutral pH.
- Do not mix Pest Out with oxidizing agents such as bleach, bases or strong acids as they will destabilize the product. Avoid application when drying of product is not possible for prolonged periods.

## APPLICATION RATE

In general, add 1 gallon of Pest Out for every 100 gallons of water to be applied. Add to mixing tank with half of the amount of water you wish to apply. Allow the solution to completely mix then add the remaining water to the tank. Refer to supplemental labeling for specific use and directions.

## MIXING INSTRUCTIONS

Pest Out may be applied using conventional ground application equipment. Aerial application equipment is not recommended. Use quantities of water sufficient to provide thorough coverage of infested plants. Add enough water to spray tank to allow maximum agitation. With agitator running, slowly add the appropriate amount of Pest Out. Continue agitation. Add remainder of water and agitate until thoroughly mixed. Maintain suspension while loading and spraying. Do not mix more Pest Out than can be used in a 12 hour period. Rinse and flush spray equipment thoroughly following each use. Do not contaminate water when disposing of equipment washwaters.

In order to make proper decisions on application rates to be used, follow the recommendations in the APPLICATION RATE TABLE.

**NOTE:** All applications should be preceded by a phytotoxicity check to ensure that the material is safe for that particular plant variety. We recommend that prior to treatment of a large number of plants, new species, or varieties, treat a few plants with Pest Out and observe if there is any phytotoxicity. It is best to treat plants after they've adjusted to environmental changes, i.e. temperature, water, light intensity, new containers, new area, transplanting, wind, high humidity, etc. Do not use if sulfur is present on plant tissues.

## TANK MIXING

Pest Out has not been tested for use in a tank mix with many commonly used insecticides, fungicides, or spray tank adjuvants. We recommend testing all tank mix combinations for physical compatibility and plant safety. Consult your dealer or manufacturer for specific recommendations. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rate should be exceeded. Application must be made in accordance with the more restrictive of label limitations and precautions. Read and follow label instructions.

## STORAGE AND DISPOSAL

**Do not contaminate water, food or feed by storage or disposal.**

**STORAGE:** Keep this product in containers stored upright and secured with the original closure. Do not store this product near heat sources. Do not store near food or feedstuffs.



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## FOOD CROPS

### PEST OUT® APPLICATION & USE TABLE

Pest Out is exempt from tolerances on most food crops.  
 Pest Out is a contact miticide/insecticide for use on food crops.

CROPS	PESTS	RATE PER ACRE	
<i>(Pest Out can be applied to most crops)</i>	<b>(Most Spide Mites)</b>	Mix 1 gallon of Pest Out concentrate per 100 gallons of spray water. Apply enough to cover the entire surface of infested tissues.	
<b>Berries</b>	Two-spotted Mite		
Strawberries	European Red Mite		
Raspberries	Texas Six-spotted Spider Mite		
<b>Fruit Trees</b>	Pacific Mite		
Pome Fruit	Willamette Mite		
Stone Fruit	Persea Mite	<u>Mix Volume</u>	<u>FL. OZ.</u>
Avocado	Rust Mite	1 Gallon	1.5
Citrus	Silver Mite	5 Gallon	7
Nuts		10 Gallons	14
<b>Grapes</b>	<b>Avocado Thrips</b>	25 Gallons	32
<b>Vegetables</b>	<b>Citrus Thrips</b>	100 Gallons	128
Beans	<b>Flower Thrips</b>		
Lettuce	<b>Greenhouse Thrips</b>	Apply no more than once in a 7 day period. Repeat application as necessary. Coverage is essential to establish control.	
Potatoes	<b>Cabbage Aphid</b>	The use of a spreader/sticker may increase contact and efficacy of treatment.	
Sweet	<b>Green Peach Aphid</b>		
Potatoes	<b>Black Aphid</b>		
Spinach	<b>Brown Aphid</b>		
Cole Crops			
Broccoli			
Cabbage			
<b>Melons</b>			
<b>Cucurbits</b>			
<b>Peppermint &amp; Herbs</b>			

\* May cause phytotoxicity to peppers. See Note.  
 Pest Out® may be applied to any crop after checking for compatibility.

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## ORNAMENTAL & GREENHOUSE

### PEST OUT® APPLICATION & USE TABLE

Pest Out is exempt from tolerances on most crops.  
 Pest Out is a contact miticide/insecticide for use on ornamentals.

PLANTS	PESTS	RATE PER ACRE	
<b>Bedding Plants,</b>	<b>(Most Spide Mites)</b>	Mix 1 gallon of Pest Out concentrate per 100 gallons of spray water. Apply enough to cover the entire surface of infested tissues.	
<b>Flowers</b> <i>(Greenhouse &amp; Field)</i>	Two-spotted Mite		
	European Red Mite		
	Texas Six-spotted Spider Mite		
	Pacific Mite		
<b>Greenhouse Ornamentals</b>	Willamette Mite		
	Persea Mite	<u>Mix Volume</u>	<u>FL. OZ.</u>
<b>Greenhouse vegetables,</b>	Rust Mite	1 Gallon	1.5
	Silver Mite	5 Gallon	7
		10 Gallons	14
<b>Onions</b>	<b>Avocado Thrips</b>	25 Gallons	32
<b>Bare Root Stock,</b>	<b>Citrus Thrips</b>	100 Gallons	128
	<b>Flower Thrips</b>		
<b>Container Stock</b>	<b>Greenhouse Thrips</b>	Apply no more than once in a 7 day period. Repeat application as necessary. Coverage is essential to establish control.	
	<b>Cabbage Aphid</b>	The use of a spreader/sticker may increase contact and efficacy of treatment.	
<b>Fresh Cut Flowers</b>	<b>Green Peach Aphid</b>		
	<b>Aphid</b>		
	<b>Black Aphid</b>		
	<b>Brown Aphid</b>		
<b>Ornamentals</b>			

**USE EXTREME CAUTION WHEN APPLYING TO ROSES AND SENSITIVE FLOWERS AND FRUIT.**

**Pest Out® is suitable for all crops and plants. Always conduct a phytotoxicity test prior to any large scale application.**