Certis USA

NEEMIX®

Botanical Agricultural Insecticide/Insect Growth Regulator

BROAD SPECTRUM IGR INSECTICIDE

An insecticide for use on food crops in and around agricultural areas and greenhouses. Kills/repels a variety of insect pests including whiteflies, leafminers, caterpillars, aphids, and diamondback moths.

ACTIVE INGREDIENTS

Azadirachtin  0.25%  

INERT INGREDIENTS  99.75%

TOTAL  100.00%

*Contains 0.017 pounds of azadirachtin per gallon.

EPA Reg. No. 70051-5

EPA Est. No. 44616-MO-01

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid contamination of feed and foodstuffs. Avoid breathing spray mist. In case of eye contact, flush eyes with plenty of water. If on skin, wash with soap and water. If irritation persists, get medical attention.

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 C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.
- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.
- Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions, use detergent and hot water. Keep and wash PPE separately from other laundry.

USE 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

This product may be hazardous to fish and aquatic invertebrates. Do not apply directly to water, or 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 water.

PHYSICAL AND CHEMICAL HAZARDS

Flammable. Do not use or store below 60°F (15°C) or above 95°F (35°C).

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep in original container. Store in a cool, dry place, away from direct sunlight, feed or foodstuffs. Keep container tightly sealed when not in use. Do not store below 60°F (15°C) or above 95°F (35°C).

Pesticide Disposal: Rinsewater and unused diluted pesticide may be disposed of on-site in an approved waste disposal facility. Do not reuse empty container. Triple rinse empty containers and offer for recycling or puncture and dispose of in a sanitary landfill or by incineration, if allowed by state and local authorities. If burned, stay out of smoke.

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.

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 statement of PPE, the restricted-entry interval (REI), and the required 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 4 hours. PPE required for 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 butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

General Directions

Use care when applying near streams, ponds, lakes, or other bodies of water. NEEMIX® should not be applied when weather conditions favor drift or when the likelihood of runoff is high.

GREENHOUSE

- For use to control whiteflies, thrips, mealybugs, leafminers, loopers, caterpillars, beet armyworms, and aphids in and around greenhouses and commercial nurseries.
- NEEMIX® may be used on all listed fruits, vegetables, vegetable transplants, and herbs both inside and outside of the greenhouse.
- For high volume application, dilute NEEMIX® to a concentration of 64 to 128 ounces (4 to 8 pints) per 100 gallons of water (4 to 8 teaspoons of NEEMIX® per gallon of water). Mix thoroughly. Apply 25-40 psi with hand sprayer or 100-200 psi with power sprayer as a fine spray to both leaf surfaces to runoff. Usually 1-2 gallons of spray solution/1000 sq. feet. Excessive applications are unnecessary and should be avoided.
- For low volume application, apply at a rate of 0.5 gallon of NEEMIX® per 1000 square feet.
- Sprays may be applied on a preventative 7-day schedule or at the first sign of insect presence. This schedule is effective under low insect pressure. Under high insect pressure, apply every 3-4 days.
- For drench application in greenhouse planting, use 2.5 pints per 100 gallons and apply at the rate of 1 quart of diluted solution per square foot of growing media surface. Repeat at 14 day intervals during the growing season.

FIELD CROPS

Specific Crop Directions

Application Rate: Apply 0.5-2.0 gallons of NEEMIX® per acre using conventional application equipment in a minimum of 30 gallons of water. The low rate should be used as a preventative when pest pressure is low or not used in conjunction with adulticide products. Otherwise, the high rate should be used. The maximum application rate is 20 grams of active ingredient or less per acre according to the tolerance exemption (40 CFR 180.1119).
**Mode of Action**

This product controls targeted insect larvae when ingested or come in contact with it, by interfering with the insect's ability to molt. It is effective on all larval stages and pupae. It also reduces damage by repelling and deterring feeding of all stages of insect.

**Application Rate for Whitewflies, Aphids, Leafminers, Armyworms, and Other Pests**

<table>
<thead>
<tr>
<th>Pest</th>
<th>Rate Neemix Per Acre* (gallons)</th>
<th>Frequency</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweetpotato Whitefly Low Pressure</td>
<td>0.5-1.0 gallons</td>
<td>4-10 days</td>
<td>Foliar application to larvae and nymphs</td>
</tr>
<tr>
<td>High Pressure</td>
<td>1.0-2.0 gallons</td>
<td>3-7 days</td>
<td>Suppression and adult feeding deterrence</td>
</tr>
<tr>
<td>Aphids</td>
<td>0.5-1.0 gallons</td>
<td>7-10 days</td>
<td>Foliar application to larvae and nymphs</td>
</tr>
<tr>
<td>Leafminers</td>
<td>0.5-1.0 gallons</td>
<td>14-21 days</td>
<td>Foliar application to larvae and nymphs</td>
</tr>
<tr>
<td>Armyworms</td>
<td>0.5-1.5 gallons</td>
<td>7-10 days</td>
<td>Foliar application to larvae and nymphs</td>
</tr>
<tr>
<td>Others (including)</td>
<td>1.0-2.0 gallons</td>
<td>7-10 days</td>
<td>Foliar application to larvae and nymphs</td>
</tr>
<tr>
<td>Borers</td>
<td></td>
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<td></td>
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<tr>
<td>Leafhoppers</td>
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<td></td>
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<tr>
<td>Leafrollers</td>
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<tr>
<td>Loopers</td>
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</tbody>
</table>

*apply in sufficient water to obtain adequate plant coverage.

**CITRUS, POME AND STONE FRUITS**

Crops (including, but not limited to)

- Apples
- Apricots
- Avocado
- Cherries
- Crabapple
- Grapefruits

**CUCURBITS**

Crops (including, but not limited to)

- Balsam pears
- Cantaloupes
- Chinese waxgourds

**BULB, COLE AND LEAFY VEGETABLES**

Crops (including, but not limited to)

- Asparagus
- Argula
- Bok choy
- Broccoli
- Brussels sprouts
- Cabbage
- Cauliflower
- Celery
- Chinese spinach

**LEGUME AND FRUITING VEGETABLES**

Crops (including, but not limited to)

- Beans
- Chick peas
- Eggplants
- Ground cherries

**ROOT AND TUBER VEGETABLES**

Crops (including, but not limited to)

- Artichokes
- Beets
- Carrots
- Cassava
- Ginger

**SMALL FRUITS AND BERRIES**

Crops (including, but not limited to)

- Blackberry
- Blueberry
- Boysenberry
- Cranberry
- Currant

**HERBS AND SPICES**

Crops (including, but not limited to)

- Anise
- Basil
- Blueberry
- Boysenberry
- Cranberry

### Pest Control by Neemix

**INSECT PESTS CONTROLLED BY NEEMIX**

### NUTS

Crops (including, but not limited to)

- Almond
- Beech nut
- Brazil nut
- Butternut

### MISCELLANEOUS

Crops (including, but not limited to)

- Cottontop
- Alfalfa
- Sweet Corn

### OTHERS

- Armyworms, such as:
- Others (including)
- Borers, such as:
- Caterpillars & Loopers, such as:
- Cutworms, such as:
- Leafhoppers, such as:
- Leafminers, such as:
- Leaffooted Bug, such as:
- Moths, such as:
- Thrips, such as:
- Whiteflies, such as:

**INSECTICIDES CONTROLLING BY NEEMIX**

- Aphids, such as:
- Bees, such as:
- Caterpillars, such as:
- Cutworms, such as:
- Leafhoppers, such as:
- Leafminers, such as:
- Leafrollers, such as:
- Moths, such as:
- Thrips, such as:
- Whiteflies, such as:

**SPECIMEN LABEL. UPDATES AVAILABLE AT WWW.GREENBOOK.NET 2**

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Strawberry Beetle  Mexican Bean Beetle
Potato Flea Beetle

Miscellaneous, such as:

- Fruitfly
- Grasshopper
- Squash Bug
- Onion Maggot
- Tomato Pinworm
- Cherry Fruitworm
- Grape Leaffolder
- Filbert Worm
- Squash Bug
- Pecan Leaf Phylloxera
- Pecan Stem Phylloxera
- Bollworm
- Cotton Leafperforator

CHEMIGATION

Refer to supplemental labeling entitled ‘Thermo Trilogy’s Chemigation Bulletin’ for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed. For a copy of this bulletin, please call Thermo Trilogy’s Customer Service.

WARRANTY

Thermo Trilogy Corp. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.