

STATE OF HAWAII  
Department of Agriculture

**ACCEPTED**

LICENSE NO. **9805.113**

GROUP **6** INSECTICIDE

# Minx™<sup>2</sup>

## Miticide/Insecticide

For Control of Leafminers and Mites and Suppression of Aphids,  
Whiteflies and Thrips on Ornamental Plants

**ACTIVE INGREDIENT:**

Abamectin (CAS No.'s 65195-56-4 and 65195-55-3): .....2.0%\*

**OTHER INGREDIENTS:** .....98.0%

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

\*Contains 0.15 pounds Abamectin per gallon.

Contains VOC  $\leq$ 20% EP; qualifies as "Low VOC" under California regulations

### 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.)

**SEE INSIDE LABEL BOOKLET FOR ADDITIONAL FIRST AID AND PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300.

For Medical Emergencies Only, Call (877) 325-1840.

EPA Reg. No. 228-734

EPA Est.No. 70815-GA-001

**Net Contents**

**1 Gal. (3.78 L)**

Manufactured for  
Nufarm Americas Inc.  
11901 S. Austin Avenue  
Alsip, IL 60803



Grow a better tomorrow.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for Category B on an EPA chemical-resistant category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof or Chemical-resistant gloves, such as barrier laminate or butyl rubber  $\geq$  14 mils
- Socks plus shoes

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.

**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>• <b>DO NOT</b> give any liquid to the person.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</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>
<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 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>HOT LINE NUMBER</b>	

*(continued)*

**FIRST AID** *(continued)*

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

**NOTE TO PHYSICIAN**

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscle tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. **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 washwater or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**ATTENTION:** This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

**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 statements on this label about 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 12 hours**.

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
- Waterproof or Chemical-resistant gloves, such as barrier laminate or butyl rubber  $\geq$  14 mils
- 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.

**DO NOT** re-enter treated areas until sprays have dried.

### GENERAL INFORMATION

This product contains the active ingredient abamectin which mixes readily with water for control of leafminers and mites on ornamental plants. This product also acts to suppress whiteflies, thrips and aphids, is applied as a foliar spray and must be mixed in enough water to ensure thorough coverage of the foliage.

#### RESISTANCE MANAGEMENT

To avoid development of resistance to this product, use resistance management practices. A number of options exist to prevent resistance including the use of other insecticides/miticides with different modes of action, alternating the use of the same product in treating successive generations of insects, applying at the use rate and spray intervals specified on the product label, non-chemical alternatives, rotation of susceptible to non-susceptible plants, etc. Consult your State Cooperative Extension Service for assistance with these or other resistance management strategies.

*Liriomyza* leafminers resistance can be managed by making three applications of this product followed by three applications of a registered alternative insecticide with a different mode of action; then return to making this product or an alternate insecticide. Rotation of insecticides should be timed so that this product is not applied to successive generations of this pest.

#### RESTRICTIONS

- Roses, chrysanthemums, and gerbera are primary hosts of mites and *Liriomyza* leafminers which this product effectively controls. Attempts to use this product to suppress aphids, thrips, and whiteflies on ornamental plants leads to resistance in mites and *Liriomyza* leafminers.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply by air.
- **DO NOT** use in citrus nurseries.
- Testing of this product has shown it to be safe on many ornamental species. However, this product is not specified for use on ferns (e.g., *Adiantum* spp.) or Shasta Daisy (*L. eucanthemum* spp.) to avoid the possibility of phytotoxicity.

Although this product has been found to be safe to use on most ornamental species, it is not possible to test all possible spray combinations of this product mixed with different adjuvants and surfactants. Spray mixtures should be tested by applying to a few plants and evaluating the ornamentals for phytotoxicity prior to using that spray mixture on a commercial scale.

**DIRECTIONS FOR USE ON SHADEHOUSE, GREENHOUSE, AND FIELD-GROWN ORNAMENTALS, FOLIAGE PLANTS, CHRISTMAS TREES, AND OTHER WOODY ORNAMENTAL PLANTS**

Pests	Application Rate of MINX 2 Miticide/ Insecticide (fl. oz./100 gallons of water)	Application Timing	Application Dilutions
European red mite Carmine spider mite Eriophyid mites (rust and bud mites) Southern red mite Spruce spider mite Tarsonemid mites (cyclamen & broad mites) Two-spotted spider mite	4.0	Apply this product when mites first appear. Make repeat applications as needed for control of pest. Apply this product when leafminers appear and repeat applications at 7-day intervals or as needed to maintain control. Control of Tarsonemid mites requires repeat applications to newly developing foliage.	Apply this product in 200-400 gallons of water per acre. If the water volume must be greater for sufficient foliage coverage (ex., 650 gal.), use 2.5 fl. oz. per 100 gallons. Mix a minimum of 8 fl. oz of this product per Acre when water volumes are less than 200 gallons. Mix a minimum of 16 fl. oz of this product per Acre when water volumes are more than 400 gallons.
<i>Liriomyza</i> Leafminers	8.0	Repeat at 7-day intervals or as necessary to maintain control.	Apply this product in 100-200 gallons of water per acre. If the water volume must be greater for sufficient foliage coverage (ex., 400 gal.), use 4.0 fl. oz. per 100 gallons.
Boxwood leafminer		Apply when adults begin to lay eggs in the new foliage.	Mix a minimum of 8 fl. oz of this product per Acre when water volumes are less than 100 gallons.
Aphids, Thrips and Whiteflies		Suppression of immature stages of these pests requires direct contact with the spray of this product. Make repeat applications at 7-day intervals for up to three weeks. Then use insecticides with modes of action different from this product for up to three weeks. Direct contact of the spray of this product can kill aphids, thrips and whiteflies.	Mix a minimum of 16 fl. oz of this product per Acre when water volumes are more than 200 gallons.
<p><b>NOTE: DO NOT</b> apply less than specified amount of this product. Mix with a sufficient volume of water to ensure thorough coverage of the plant. Read the section above on <b>Resistance Management</b> and comply with all label restrictions.</p> <p>Addition of horticultural spray oil at concentrations of between 0.5 and 1.0% of the spray volume prolongs control of target pests infesting field-grown woody ornamentals, landscape plants and Christmas trees. Make repeat applications as necessary at 7-day intervals to maintain control. To avoid damage to plants which are sensitive to oils, apply the spray mixture to a small number of plants and observe plants for two weeks before making applications on a large scale. Plants can also be damaged when using spray oils when temperature extremes occur. Carefully read and follow directions on the oil label. <b>DO NOT</b> exceed maximum use rates listed on either label.</p>			

**BACKYARD FRUIT AND NUT USE DIRECTIONS**  
**Apple, Pears (including Oriental pear trees)**

Target Insects	Application Rate of MINX 2 Miticide/ Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
European red mites McDaniel spider mites Pear rust mites Pear psyllas Tentiform leafminers Two-spotted spider mites White apple leafhoppers Yellow mites	Concentrate Sprays: 10-20 fl. oz./A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal) ADD a horticultural oil for best results	Apply using conventional dilute or concentrate ground equipment. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage. <b>Spider Mites:</b> Apply when mites first appear. For best results, apply before 5 spider mites per leaf is observed. Spray deposits of this product plus a horticultural spray oil on new foliage growth provides greater residual control. Apply this product for spider mite control only during petalfall and up to six weeks following petalfall. <b>Tentiform Leafminers:</b> For best results, apply to control new hatch (eggs) and early stages of first and second generation leafminers. <b>DO NOT</b> apply during bloom. <b>White Apple Leafhopper (Not for use west of the Rocky Mountains):</b> Apply this product only to the first generation soon after petalfall; use in combination with horticultural spray oil. Application without horticultural spray oil may result in reduced efficacy and/or residual control. However, fruit injury to certain apple varieties (on light-skinned varieties such as Golden Delicious) may occur with this combination of this product and spray oil if other products are applied after this spray mix application. Refer to the Directions for Use and Precautions on horticultural spray oil labels. If needed, a second application may be made but allow at least 21 days to elapse after the first application.	<b>Pre-Harvest Interval</b> – 28 days <b>DO NOT</b> exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season. <b>DO NOT</b> apply this product to control white apple leafhopper west of the Rocky Mountains. <b>DO NOT</b> make more than 2 applications per season. <b>DO NOT</b> apply by air. Refer to additional directions on spray oils in the <b>PRODUCT INFORMATION</b> section. See specific restrictions for this crop in the <b>SPRAY DRIFT MANAGEMENT</b> section of this label. To avoid phytotoxicity or loss of crop, do not apply this product plus oil if Captan was applied 14 days before the application or if Captan will be applied 14 days after application. <b>DO NOT</b> graze livestock in treated orchards. Horticultural Spray Oil ( <b>DO NOT</b> use on a dormant oil). 1 gal./A (minimum) (0.25%, v/v)
<b>NOTE:</b> Concentrate Spray rates (MINX 2 Miticide/Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of MINX 2 Miticide/Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. MINX 2 Miticide/Insecticide/A for small trees. Rates of MINX 2 Miticide/Insecticide/100 gal are based on 400 gal/A of dilute spray.			

## AVOCADOS

Target Insects	Application Rate of MINX 2 Miticide/ Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p>Avocado thrips (<i>Scirtothrips perseae</i>) Perseae Mites (<i>Oligonychus perseae</i>)</p>	<p><b>DO NOT</b> use less than 10 fl. oz. of this product per Acre Low to moderate insect infestations: 10.0-15.0 Heavy pest infestations: 15.0-20.0 ADD a horticultural oil for best results</p>	<p>Apply using ground equipment in 100 or more gal water/A. If using 400 gal/A or more, apply 2.5 fl. oz. of this product/100 gal of water <b>and</b> 1.0-4.0% of NR (narrow range) 415 oil. Although aerial applications are permitted when this product is applied in 50 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of thrip control from aerial applications of this product. Apply this product when thrips first appear but prior to finding 5 immature thrips per leaf or fruit. For low to moderate infestations, include 1.0-4.0% of NR 415 oil in combination with this product and the horticultural spray oil approved for use on avocados. If needed, a second application may be made but allow at least 30 days to elapse after the first application.</p>	<p><b>Pre-Harvest Interval</b> – 14 days <b>DO NOT</b> make more than 2 applications per season. <b>DO NOT</b> exceed 20 fl. oz./A per application or more than 40 fl. oz./A per season. <b>DO NOT</b> allow livestock to graze in treated orchards. Refer to additional directions on spray oils in the <b>PRODUCT INFORMATION</b> section. Horticultural Spray Oil (<b>DO NOT</b> use a dormant oil), minimum 1 to 4%, v/v (minimum)</p>
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• Low infestations are defined as 1-2 immature thrips per leaf/fruit</li> <li>• Moderate infestations are defined as 2-4 thrips per leaf/fruit;</li> <li>• Heavy/severe infestations are defined as more than 5 thrips per leaf/fruit.</li> </ul> <p><b>NOTE:</b> To prevent crop injury, observe all precautions and restrictions on the oil label. When using oil concentrations above 2.0%, treat a small test area before making a large-scale application.</p>			

## CITRUS FRUIT CROP

**Crops in this group include calamondin, citrus citron, citrus hybrids (includes chironja, tangelo, tangor), grapefruit, kumquat, lemon, lime, mandarin (tangerine), pummelo, Satsuma mandarin, sour orange, and sweet orange.**

Target Insects	Application Rate MINX 2 Miticide/ Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
Broad mites Citrus bud mites Two-spotted spider mites	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 1.0- 2.0 fl. oz./100 gal)	Apply using conventional dilute or concentrate ground equipment.  Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage.  ADD a horticultural oil for best results.	<b>Pre-Harvest Interval</b> – 7 days  To avoid insect resistance to this product, do not apply to citrus grown in nurseries.  <b>DO NOT</b> apply this product, or any other abamectin containing product within 30 days of the last treatment.
Citrus rust mites	Concentrate Sprays: 5-20 fl. oz/A (Dilute Sprays: 0.5- 2.0 fl. oz./100 gal)	<b>Asian citrus psylla:</b> Apply to protect newly expanding foliage flush during the spring, summer or fall. MINX 2 Miticide/Insecticide will only control adults and nymphs present at the time of application.	<b>DO NOT</b> exceed 40 fl. oz/A (0.047 lb. a.i./A) of this product, or any other abamectin containing product per growing season.
Citrus leafminers	Concentrate Sprays: 5-20 fl. oz/A (Dilute Sprays: NR)	<b>Mites:</b> Apply when mites first appear during spring, summer, and/or fall.  <b>Citrus bud mite:</b> For best results, time the spray at “bud swell”.	<b>DO NOT</b> make more than 3 applications of this product, or any other abamectin containing product per growing season.  <b>DO NOT</b> allow livestock to graze in treated orchards.
Asian citrus psyllids Citrus thrips	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: NR)	<b>Citrus leafminer:</b> Apply to protect new growth during spring, summer, or fall.  <b>Citrus thrips:</b> Application targeted for citrus thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun - preferably early to mid-hatch).  For <b>Asian citrus psylla, broad mites, citrus leafminers</b> and <b>citrus rust mites</b> optimum results are achieved if spray applications are made at 150-300 gals. Spray mixture/A plus a minimum of 3 gal./A of horticultural oil. Apply with a ground speed of 1 to 1.5 mph.	Refer to additional directions on spray oils in the <b>PRODUCT INFORMATION</b> section.  See specific restrictions for this crop in the <b>SPRAY DRIFT MANAGEMENT</b> section of this label.  For all other pests besides to control <b>citrus leafminer - DO NOT</b> apply by air. Horticultural Spray Oil ( <b>DO NOT</b> use a dormant oil) 1 gal./A (minimum) (0.20%); see specific rates for certain pests under Application Instructions and Timing.

**CITRUS FRUIT CROP** (continued)

Target Insects	Application Rate MINX 2 Miticide/ Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
Horticultural Spray Oil ( <b>DO NOT</b> use a dormant oil)	1 gal./A (minimum) (0.20%, v/v); see specific rates for certain pests under Application Instructions and Timing	<p>To control <b>citrus leafminer</b> -Ground or aerial application is permitted; however, do not apply with aircraft to citrus in California. For Aerial application use a minimum of 10 gallons of finished spray volume per acre. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure adequate coverage.</p> <p>To manage resistance, if pest infestation requires additional treatments, use other alternate insecticides with different modes of action which are labeled for use on these pests and crops.</p>	
<p>NR = Not recommended.</p> <p><b>NOTE:</b> Concentrate Spray rates (MINX 2 Miticide/Insecticide /A) are adjusted to apply the amount/A equal to that used in full cover dilute spray. The amount of MINX 2 Miticide/Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. MINX 2 Miticide/Insecticide/A for small trees. Rates of MINX 2 Miticide/Insecticide/100 gal are based on 1,000 gal/A of dilute spray.</p>			

### STONE FRUIT CROP GROUP (CROP GROUP 12)

Crops in this group include apricot, cherry (sweet and tart), nectarine, peach, plum, plum (chickasaw, damson, and Japanese), plumcot and prune (fresh).

Target Insects	Application Rate of MINX 2 Miticide/Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
<p>European red mites Pacific spider mites Two-spotted spider mites</p>	<p>Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal)</p> <p>PLUS</p> <p>a horticultural oil or nonionic surfactant (required for optimum insect control)</p>	<p>Apply using conventional dilute or concentrate ground equipment. Make applications when mites first are seen. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage. If needed, a second application may be made but allow at least 21 days to elapse after the first application. Always apply this product in combination with either a nonionic surfactant, or with horticultural spray oil (not a dormant oil), but use caution since oil may cause phytotoxicity to foliage and fruit.</p>	<p><b>Pre-Harvest Interval</b> – 21 days <b>DO NOT</b> exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season. <b>DO NOT</b> make more than 2 applications per season. Refer to additional directions on spray oils and nonionic surfactants in the <b>PRODUCT INFORMATION</b> section. See specific restrictions for this crop in the <b>SPRAY DRIFT MANAGEMENT</b> section of this label. <b>DO NOT</b> apply by air. <b>DO NOT</b> graze livestock in treated orchards. Horticulture Spray Oil (NOT a dormant oil) 1 gal/A (minimum) (0.25%, v/v) Nonionic Surfactant – labeled rate</p>
<p><b>NOTE:</b> Concentrate Spray rates (MINX 2 Miticide/Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of MINX 2 Miticide/Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. MINX 2 Miticide/Insecticide/A for small trees. Rates of MINX 2 Miticide/Insecticide/100 gal are based on 400 gal/A of dilute spray.</p>			
<p><b>NOTE:</b></p>			
<p>1) A nonionic surfactant that spreads on and/or penetrates the leaf cuticle can improve insect control. It is impossible to test on all stone fruit varieties under the variety of conditions that may cause crop injury. Therefore, when using MINX 2 Miticide/Insecticide in combination with a non-ionic surfactant, carefully follow the <b>Directions for Use</b> and <b>Precautions</b> on the surfactant label and in official spray guides. 2) A horticultural oil (not a dormant oil) may improve efficacy and may be used but it may increase the possibility of phytotoxicity to foliage and fruit.</p>			

### TREE NUTS CROP GROUP (CROP GROUP 14) AND PISTACHIO

Crops in this group include almond, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert (hazelnut), hickory nut, macadamia nut, pecan, and walnuts (black and English).

Target Insects	Application Rate of MINX 2 Miticide/Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
European red mites Pacific spider mites Strawberry spider mites Two-spotted spider mites	Concentrate Sprays: 10-20 fl. oz./A  (Dilute Sprays: 2.5-5.0 fl. oz./100 gal)  <b>Plus</b> a horticultural spray oil (required for optimum insect control)	Apply using conventional dilute or concentrate ground equipment.  Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage.  Apply this product when spider mites first appear. Greater residual spider mite control is achieved when spray is deposited on new foliage growth.  If needed, a second application may be made but allow at least 21 days to elapse after the first application.	<b>Pre-Harvest Interval</b> – 21 days <b>DO NOT</b> exceed 20 fl. oz./A per application or 40 fl. oz./A per growing season.  <b>DO NOT</b> make more than 2 applications per season. <b>DO NOT</b> apply by air.  Refer to additional directions on spray oils in the <b>PRODUCT INFORMATION</b> section.
Horticultural Spray Oil ( <b>DO NOT</b> use a dormant oil)	1 gal./A (minimum) (0.25%, v/v)	To manage resistance, if pest infestation requires additional treatments, use other alternative insecticides with different modes of action which are labeled for use on these pests and crops.	See specific restrictions for this crop in the <b>SPRAY DRIFT MANAGEMENT</b> section of this label.  <b>DO NOT</b> graze livestock in treated orchards.  Horticultural Spray Oil ( <b>DO NOT</b> use a dormant oil), 1 gal./A (minimum) (0.25%, v/v)
<b>NOTE:</b> Concentrate Spray rates (MINX 2 Miticide/Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of MINX 2 Miticide/Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl. oz. MINX 2 Miticide/Insecticide/A for small trees. Rates of MINX 2 Miticide/Insecticide/100 gal are based on 400 gal/A of dilute spray.			

### CUCURBIT VEGETABLES CROP GROUP (CROP GROUP 9)

Crops in this group are: Chayote, Chinese waxgourd, Citron Melon, Cucumber, Gherkin, Edible Gourd, (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp., (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of Cucumis melo) includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus).

For Control of Leafminers and Spider Mites

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control. For best control of mites, apply MINX 2 Miticide/Insecticide with ground application equipment.

Pest	fl. oz./A.	Instructions
Leafminers Spider Mites	8.0-16.0	<ul style="list-style-type: none"><li>• Use 8 - 12 fl. oz./A for low to moderate infestations and 16 fl. oz./A for severe infestations.</li><li>• Apply when adult leafminer flies or spider mites are first observed and repeat application as necessary to maintain control within constraints of a sound resistance management program. (See Use Restrictions.)</li></ul>

<sup>a</sup> The rate of MINX 2 Miticide/Insecticide per 100 gal. is based on a volume of 400 gal./A dilute spray.

#### Use Restrictions - Cucurbit Vegetables Crop Group

- PHI: Do not apply within 7 days of harvest.
- Application Method: Ground or aerial application is permitted; however, do not apply with aircraft in New York State.
- Maximum Amount per Application: Do not apply more than 16 fl oz./A (or 0.019 lb. a.i./A) of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product per application.
- Application Interval: Wait at least 7 days before repeating application.
- Number of Applications: Do not make more than 2 sequential applications of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product.
- Maximum Amount per Season: Do not apply more than 48 fl. oz./A (or 0.056 lb. a.i./A) of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product in a growing season.

## FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP (CROP GROUP 8)

Crops in this group are: Eggplant, Groundcherry, Pepino, Peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, and Tomato

For control of Broad mite, Colorado potato beetle, Liriomyza leafminers, Spider mites, Thrips palmi, Tomato pinworm, Tomato psyllid, and Tomato russet mite.

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control. For best control of mites, apply MINX 2 Miticide/Insecticide with ground application equipment.

Pest	For Dilute Sprays <sup>a</sup> fl. oz./100 gal.	Instructions
Broad mite Colorado potato beetle Liriomyza leafminers Spider mites Thrips palmi Tomato psyllid Tomato russet mite	2.5-4.0	<ul style="list-style-type: none"> <li>Broad, russet, and spider mites: Apply when mites first appear.</li> <li>Thrips palmi: Apply when thrips are first observed.</li> <li>Tomato pinworm: Application may be made from the time moth activity is detected up to, but no later than, the time when newly emerged larvae are present.</li> <li>Mites, leafminers, Thrips palmi, and Colorado potato beetle: Use 8 fl. oz./A for low to moderate infestations and 16 fl. oz./A for severe infestations.</li> <li>Repeat application as necessary to maintain control. (See Use Restrictions.)</li> </ul>
Tomato pinworm	4.0	<ul style="list-style-type: none"> <li>Note: MINX 2 Miticide/Insecticide may be used without a wetting agent. Spreading and penetrating surfactants can improve insect control when necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker-type surfactants.</li> </ul>

The rate of MINX 2 Miticide/Insecticide per 100 gal. is based on a volume of 400 gal./A dilute spray.

### Use Restrictions - Fruiting Vegetables Crop Group

- PHI: Do not apply within 7 days of harvest.
- Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to insure adequate coverage.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./A (or 0.019 lb. a.i./A) of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product per application.
- Application Interval: Wait at least 7 days before repeating application.
- Number of Applications: Do not make more than 2 sequential applications of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product.
- Maximum Amount per Season: Do not apply more than 48 fl. oz./A (or 0.056 lb. a.i./A) of MINX 2 Miticide/Insecticide or any other foliarly applied abamectin-containing product in a growing season.

### HERB CROP SUBGROUP (CROP SUBGROUP 19A)

Crops in this group include angelica, balm, basil, borage, burnet, camomile (or chamomile), catnip, chervil (dried), chives, chives (Chinese), cilantro (leaf), clary, coriander (leaf), costmary, culantro (leaf), curry (leaf), dill weed, horehound, hyssop, lavender, lemongrass, lovage (leaf), marigold, marjoram (*Origanum* species), nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage, summer and winter savory, sweet bay, tansy, tarragon, thyme, wintergreen, woodruff, and wormwood.

Target Insects	Application Rate of MINX 2 Miticide/ Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p><i>Liriomyza</i> leafminers Spider mites</p>	<p>Low to moderate pest infestations: 8.0 Heavy pest infestations: 16.0 ADD a nonionic surfactant for best results</p>	<p>Apply using ground equipment using conventional dilute or concentrate sprayers. Apply when adult leafminer flies first appear using sufficient volumes (greater than 30 gal of water per acre) to ensure thorough foliage coverage. If needed, a second application may be made but allow at least 7 days to elapse after the first application. A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray on the foliage.</p>	<p><b>Pre-Harvest Interval for listed herbs except chive</b>– 14 days. <b>Pre-Harvest Interval for chives</b> - 7 days. <b>DO NOT</b> apply more than 6 applications of 8 fl. oz. of this product/A or 3 applications of 16 fl. oz. of this product/A per cropping season. <b>DO NOT</b> make more than 2 applications per single cutting (harvest). <b>DO NOT</b> apply by air. Refer to additional directions on nonionic surfactants in the <b>PRODUCT INFORMATION</b> section. <b>DO NOT</b> graze livestock in treated fields or feed treated foliage to livestock.</p>

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a tightly closed container in a cool, dry place.

**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:** Nonrefillable container. **DO NOT** reuse or refill this container. 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. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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**If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

RV100115

NOTES

GROUP 6 INSECTICIDE

# Minx™ 2

Miticide/Insecticide

**ACTIVE INGREDIENT:**

Abamectin (CAS No.'s 65195-56-4 and 65195-55-3): ..... 2.0%\*

**OTHER INGREDIENTS:** ..... 98.0%

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

\*Contains 0.15 pounds Abamectin per gallon.

Contains VOC <20% EP, qualifies as "Low VOC" under California regulations

## 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.)

SEE INSIDE BOOKLET FOR ADDITIONAL FIRST AID AND  
PRECAUTIONARY STATEMENTS

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### FIRST AID

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. **DO NOT** give any liquid to the person. **DO NOT** induce vomiting unless told to do so by the poison control center or doctor. **DO NOT** give anything by mouth to an unconscious person. **IF IN EYES:** 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 ON SKIN OR CLOTHING:** 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 INHALED:** 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. **HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical

### FIRST AID (continued)

treatment information. **NOTE TO PHYSICIAN:** Early signs of intoxication include dilation of pupils, muscular incoordination, and muscle tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

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EPA REG. NO. 228-734

EPA EST. NO. 70815-GA-001

**Net Contents: 1 Gal. (3.78 L)**

**Manufactured for**

Nufarm Americas Inc.  
11901 S. Austin Avenue  
Alsip, IL 60803

PULL HERE TO OPEN  
PRESS TO RESEAL

14928000

RV100115