

# Neemix®

INSECT GROWTH REGULATOR

For Use on Tomato, Vegetable and Tree Fruit Crops

Neemix® is a botanical insect growth regulator (IGR) that controls a wide range of insect species.

- Broad-spectrum control: Aphid, leafminer, whitefly, leafhopper and chewing pests.
- Unique mode of action controls immature insects. There is minimal impact on beneficial insects that are exposed as adults.
- Nontoxic to mammals or birds.
- Zero-day pre-harvest interval (PHI).
- 4-hour re-entry interval (REI).
- Meets National Organic Program (NOP) standards.
- Organic Materials Review Institute (OMRI) listed.

Always read and carefully follow label directions.

## Proven Insect Growth Regulator

Neemix is a proven IGR that kills insect larvae or nymphs before they become reproducing adults. Neemix is deadly to sucking and chewing insect pests, yet has minimal impact on non-target beneficial species. Neemix kills larval stages and nymphs by interfering with the insect molting hormone (ecdysone).

## Better Leaf Penetration

Whiteflies and other insects that feed on the undersides of leaves can be difficult to control with sprays directed only over the top of the plant. Neemix penetrates the plant by translaminar movement to provide control of these hard-to-reach pests. Repeated applications of Neemix build a “barrier” within the plant to prevent establishment of large pest populations.

## Integrated Pest Management (IPM) and Insect Resistance Management (IRM)

IPM combines various tools and methods, including biorational products like Neemix, natural enemies, and cultural methods, such as sanitation, crop rotation, and resistant crop varieties. Neemix is an excellent management tool for use in IPM programs. With its unique mode of action, Neemix can be applied in combination or rotation with currently available products, such as synthetic pyrethroid and organophosphate (OPs) insecticides, to control target insects in an Insect Resistance Management (IRM) program. Neemix has a 0-day pre-harvest interval (PHI) and a 4-hour re-entry interval (REI).

## Target Pest Species Controlled by Neemix

- Sweet potato whitefly
- Greenhouse whitefly
- Aphid
- Thrips
- Vegetable leafminer (fly larvae)
- Citrus leafminer (moth larvae)
- Psyllid (pear psylla)

## Application Timing

- Application should be made when pests first appear and are in their early larval or nymph stages.
- Repeat application every seven days or as needed.
- Repeated applications will break the life cycle of the pest.

## Application Rates

- Target 30 ppm spray solution by using 4 to 10 oz. per 100 gallons of carrier.
- Spray to coverage.
- Refer to the Azadirachtin Concentration (ppm) Table to properly match application rate and spray volume to ensure an effective concentration of 30 ppm azadirachtin in the finished spray.
- Spray solutions containing Neemix should be maintained at a pH between 4 to 7 and applied soon after mixing.
- Do not store for later use.

# Neemix<sup>®</sup>

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## Azadirachtin Concentration (ppm) in Different Spray Mixes of Neemix<sup>®</sup> 4.5

Label Rate Per Acre		Total Spray Volume (gallons per acre)								
Fl. Oz.	Grams a.i.	25	30	35	40	50	60	75	80	100
4	5.0	53	44	38	33	27	22	18	17	13
5	6.3	67	55	48	42	33	28	22	21	17
6	7.6	80	67	57	50	40	33	27	25	20
7	8.8	93	78	67	58	47	39	31	29	23
8	10.1	107	89	76	67	53	44	36	33	27
9	11.3	120	100	86	75	60	50	40	37	30
10	12.6	133	111	95	83	67	55	44	42	33
11	13.9	146	122	105	92	73	61	49	46	37
12	15.1	160	133	114	100	80	67	53	50	40
13	16.4	173	144	124	108	87	72	58	54	43
14	17.6	186	155	133	116	93	78	62	58	47
15	18.9	200	166	143	125	100	83	67	62	50
16	20.2	213	178	152	133	107	89	71	67	53

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