

# Neemix<sup>®</sup>4.5

INSECT GROWTH REGULATOR

## BOTANICAL INSECT GROWTH REGULATOR

**Certis Biologicals** is the premier manufacturer of neem-based pesticides in the world. **Neemix<sup>®</sup>4.5** reduces overall pest numbers to protect crops for optimal growth and harvest yield.



## PRODUCT HIGHLIGHTS

Certis Biologicals' vertically integrated manufacturing expertise ensures the purity of our formulation.

4.5% concentration of Azadirachtin is up to 3 times the amount found in competitors, yielding higher control at lower rates.

Significantly reduces insect feeding on crops.

Completely restricts growth by disrupting the hormonal control of molting.

Effective on a wide range of target pests and crops.



Always carefully read and follow label instructions.



## HOW IT WORKS

**Neemix® 4.5** is a botanical insect growth regulator. It controls the insects' ability to grow and multiply by killing insect larvae or nymphs before they become reproducing adults and interferes with insect molting hormone, Ecdysone. It also reduces damage by repelling and deterring feeding of all stages of insects. **Neemix® 4.5** has minimal impact on non-target beneficial species.

TANK MIXING	STORAGE	TIMING
<p><b>Neemix® 4.5 Insect Growth Regulator</b>, has been found to be compatible with most commonly used fungicides, insecticides, and fertilizers. Check physical compatibility first by using the correct proportion of products in a small jar test. Then, test tank-mix combinations for phytotoxicity on a sample of plants prior to use. See label for more details.</p>	<p>Store below 100°F or above -20°F for extended periods of time. Keep containers tightly closed when not in use. See label for Disposal and Handling directions.</p>	<p>Apply at first sign of pest presence or damage to turf. Do not apply if rain is forecast within the next 24 hours. Repeated applications will break the life cycle of the pest. Repeat application every seven days or as needed.</p>



RATE	PHI/REI
<p>4.0-16.0 oz./ per acre</p> <p>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.</p> <p>Spray solutions containing Neemix® 4.5 should be maintained at a pH between 4 to 7 and applied soon after mixing. See label for complete crop and pest application rates.</p>	<p>0-day PHI/4-hour REI</p>

Fl oz of 1.2% a.i. of most Competitors	AZADIRACHTIN CONCENTRATION * (PPM) IN DIFFERENT SPRAY MIXES OF NEEMIX® 4.5 (Up to 3.75x's higher concentration than competitors)										
	LABEL RATE PER ACRE		TOTAL SPRAY VOLUME (GALLONS PER ACRE)								
	FL. OZ.	GRAMS A.I.	25	30	35	40	50	60	75	80	100
15	4	5.2	55	46	39	34	27	23	18	17	14
19	5	6.5	68	57	49	43	34	28	23	21	17
22	6	7.8	82	68	59	51	41	34	27	26	21
26	7	9.1	96	80	68	60	48	40	32	30	24
30	8	10.4	109	91	78	68	55	46	36	34	27
33	9	11.6	123	103	88	77	62	51	41	38	31
37	10	12.9	137	114	98	85	68	57	46	43	34
40	11	14.2	150	125	107	94	75	63	50	47	38
44	12	15.5	164	137	117	103	82	68	55	51	41
48	13	16.8	178	148	127	111	89	74	59	56	44
52	14	18.1	191	160	137	120	96	80	64	60	48
56	15	19.4	205	171	147	128	103	85	68	64	51
59	16	20.7	219	182	156	137	109	91	73	68	55

\* Contains 1.29 grams of azadirachtin per fluid ounce)



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1.800.250.5024

www.CertisBio.com

PARTS PER MILLION (PPM)