



Nema-Q®

Sustainable Plant Parasitic Nematode Control

NEMA-Q is a water soluble botanical extract. It is physically compatible with most water based pesticides and liquid fertilizers providing the pH of the final solution is in a pH range of 3-8. For control of plant parasitic nematodes in vineyards, orchards, field crops, turf and ornamentals.

Nema-Q Advantages

- Compatible with most water based pesticides & fertilizers
- May enhance activity of some products by acting as wetting agent
- Controls damaging plant parasitic nematodes on contact and by ingestion
- Obtained from the Quillaja saponaria tree native to Chile
- Provides excellent control over ectoparasitic and endoparasitic nematodes
- Controls nematodes and promotes root growth

Application Methods

- Ground spray, shank injection or chemigation application methods.
- Consider the high solubility of this product when choosing a method of application and timing

Active Ingredients

*Saponins of Quillaja saponaria	8.6%
Other Ingredients	91.4%

*bidesmosidic derivatives of quillajic acid substituted with a trisaccharide at C-3 and an oligosaccharide in C-28

Mixing

Fill tank with water to at least half full, then add recommended dosage of NEMA-Q directly to the tank and continue filling. Agitation should be minimized in the tank (shut off paddle agitation if possible) to prevent foaming. To reduce foaming, an agricultural defoamer may be added to the tank mix. However, NEMA-Q foam is very water soluble, will form a true solution, and should not be a concern for settling in the tank. Apply solution within three hours of mixing.

Application Rates and Tips

To control/suppress plant parasitic nematodes, apply NEMA-Q to the full irrigated zone. For row crops, the irrigated zone is 30-50% of the row area.

For orchards or around trees, apply from tree trunk to drip-line to cover at least 50% of soil area or the area under the canopy of the tree, whichever is greatest. Single applications should be made in the spring just prior to or during root flush, and again in the fall after harvest.

For best results, multiple applications may be made in the spring, followed by a single application in the fall after harvest.

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Nema-Q™

Controls Nematodes the Natural Way

Application Tips: How Much to Apply and When to Apply

CROP	REMARKS
<i>Berries</i> <i>Citrus</i> <i>Grapes</i> <i>Nut Crop</i> <i>Pome Fruit</i> <i>Stone Fruit</i>	<p>On heavily infested soils, apply 3 gallons in 300-600 gallons water per acre (to achieve a concentration of 5,000-10,000 ppm) in a single application.</p> <p>On light to moderately infested soils, apply 1.5 gallons in 150-300 gallons water per acre (to achieve a concentration of 5,000-10,000 ppm) in a single application.</p>
<i>Cole Crops</i> <i>Cucurbit Vegetables</i> <i>Fruiting Vegetables</i> <i>Leafy Vegetables</i> <i>Strawberry</i>	<p>Apply 1-7 days preplant to the planting zone. Apply centered on the top of the row on pre-wetted soil. Follow with water to assure penetration of the product into the root zone.</p> <p>On heavily infested soils, apply 3 gallons in 300-600 gallons water per acre (to achieve a concentration of 5,000-10,000 ppm) in a single application.</p> <p>On light to moderately infested soils, apply 1.5 gallons in 150-300 gallons water per acre (to achieve a concentration of 5,000- 10,000 ppm) in a single application.</p>
<i>Bulb Vegetables</i> <i>Root and Tuber Vegetables</i> <i>Ornamentals</i>	<p>Apply prior to planting to row area to be planted. Apply centered on the top of the row on pre-wetted soil. Follow with water to assure penetration of the product into the root zone.</p> <p>On heavily infested soils, apply 3 gallons in 300-600 gallons water per acre (to achieve a concentration of 5,000-10,000 ppm) in a single application.</p> <p>On light to moderately infested soils, apply 1.5 gallons in 150-300 gallons water per acre (to achieve a concentration of 5,000-10,000 ppm) in a single application.</p>
<i>Turfgrass</i>	<p>Apply 9 fl.oz. in 3-7 gallons water per 1,000 sq.ft. (equivalent to 3 gallons in 130-300 gallons water per acre) using a sprayer with a pressure nozzle tip applicator sufficient to penetrate into the lower part of the turf leaves where <i>Anguina pacifica</i> nematode galls are formed. Do not exceed a concentration of 1.5% solution of NEMA-Q in any application.</p> <p>Repeat applications every 5-10 days. Additional applications to break the life cycle of the nematode should be repeated 2- 4 times within 60 days to significantly reduce this pest problem in one season.</p> <p>Do not water turfgrass for at least 12 hours following application. NEMA-Q is water soluble and does not require additional water application through sprinkler following application.</p>

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