Captain Jacks branding strategy brings innovation to organics





- ✓ Cold Pressed Neem Oil
- ✓ Contains Neem Oil including Azadirachtin and limonoids.
- ✓ Far broader insect listing than hydrophobic Neem Oil
- √ 70% Neem plus surfactants, mixes easily with water
- ✓ Stays in suspension and won't clog sprayers or hydroponic lines
- √ 4-in-1: Insect, Disease, Mite, Nematodes
- ✓ Suffocate, Anti-Feedant, Repellent, Insect Growth Regulator, Molting Disruptor and more
- ✓ Use as a spray or drench







- Only EPA Registered Label with full range of insects in a National Consumer Brand
- 4 in 1 control Insecticide, fungicide, miticide, nemicide
- 20 gallons of RTU for an 16oz concentrate of product
- For use on: bulbs, cucurbits, fruiting vegetables, leafy and brassica (cole) vegetables, legumes, root and tuber vegetables, small fruit and berries, citrus and tropical fruits, pome and stone fruits, tree nuts, herbs, and spices, grass, lawn, hemp and ornamentals
- Application: Product can be applied as a spray or a Drench
 - Drench allows for control of Soil Fungal Diseases: Fusarium Oxyporum, Pythium and Rhizoctonia Solani
- Zero-day Pre-Harvest interval
- Insects listed but not limited to: Aphids, Grasshoppers, Scales, Beetles, Leafhoppers, Thrips, Borers, Leafminer, True Plant bugs, Caterpillars, Mealybugs, Weevils, Flies, gnats, psyllids, Wireworms, whiteflies.

Rust

- Diseases listed but not limited to:
 Alternaria Downey Mildew

 - Anthracnose Molds
 - Blight (early, late, leaf) **Powdery Midlew**
- Botrytis Black spot

- Stem Mildew
 - Southern Blight

Scab

Sour Rot Grapes

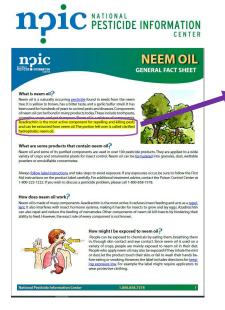
- Available in: 8oz and 16oz Conc.
- SRP: 8oz at \$11.97 and 16oz at \$17.47

Forward Looking: 2023 Ready to Use Neem Max



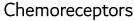
What is Azadirachtin?

- It is a biological, botanical insecticide that is produced by the neem tree.
- Antifeedant Induces increased neural activity of the chemoreceptors.
 Insects will starve to death rather than touch plants that carry traces of Azadirachtin.
- Insect Growth Regulator Induces hormonal changes by lowering the hormone Ecdysone in insects which disrupts growth/molting, sterilizes adults and inhibits egg laying.
- If it is ingested by insects it works as a stomach poison.
- Is sensitive to high temperatures and ultraviolet rays.



"Azadirachtin is the most active component for repelling and killing pests and can be extracted from neem oil. The portion left over is called clarified hydrophobic neem oil."



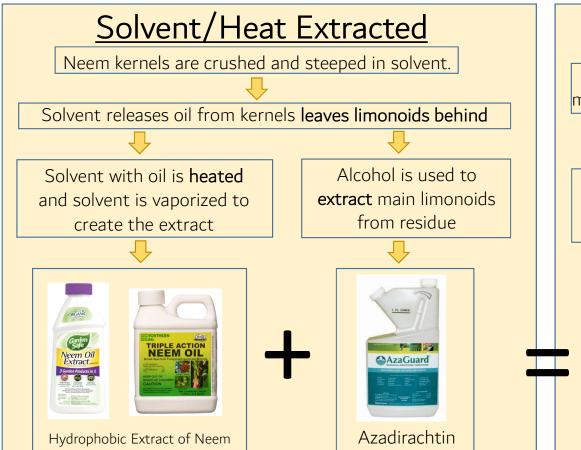


NeemMax contains over **50** biological active compounds including key "limonoids" such Salannin, meliantriol, nimbim & nimbolides. These limonoids are IGR's and repel and reduce the feeding of many insects including nematodes

How Neem Oil is Made



Extraction Processes



Cold Pressed

Neem Kernels are crushed and squeezed mechanically which releases the **unadulterated** oil



Adjuvants and **sunscreens** are added to the formulation which helps the oil mix water and lengthen efficacy





Final product
contains
Azadirachtin and
other biological
ingredients

Neem Max vs. Hydrophobic Neem Extract



Neem Max

How it Works

- Antifeedant
- Repellency
- Poisoning
- Chitin inhibition
- Reduces gut motility
- Deters egg laying

- Molting Disruption/blocking
- Inhibits eggs from hatching
- Disrupts mating
- Sterilization
- Suffocation
- Smothers fungal growth

<u>Clarified Hydrophobic</u> <u>Extract of Neem</u>

How it Works

- Suffocation
- Smothers fungal growth



Can be used as a drench to control soil fungal disease and soil insects (including Fungus Gnat and Parasitic nematodes)





Cannot be used as a drench.