

NEEM OIL

Neem Oil is a natural pesticide extracted from the seeds of Neem (*Azadirachta indica*), a tropical tree native to the Indian subcontinent. All parts of the tree have an antimicrobial and insecticidal property that has been exploited for thousands of years by indigenous people. Its excellent safety profile for higher organisms, especially birds and mammals, makes it a better alternative to chemical pesticides.

NEEM OIL is not a contact poison. It does not kill insect pests directly. It is systemic in action, mainly affecting the feeding as well as growth and development of insects. Nothing will happen immediately even if you spray the oil on insects directly, so people often come to the conclusion that neem oil is ineffective. However once ingested by insects, Neem oil causes insects to reduce or cease feeding, can prevent larvae from maturing, reduces or interrupts mating behavior and, in some cases, the oil coats the breathing holes of insects and kills them.

There are many reasons to use **NEEM OIL** in your garden, but here are some of the most compelling reasons.

It's completely Organic & Biodegradable

Since it's derived from the neem tree, it's a biodegradable compound and breaks down quickly. Most neem oil products are simply water, neem oil, and some kind of solvent or surfactant to help the oil and water mix together.

It's Not Harmful to Beneficial Insects

It's important to protect pollinators and plant friendly insects like bees, butterflies, and other beneficial bugs like ladybugs. While chemical insecticides and fungicides can damage such insects, **NEEM OIL** causes no adverse effects on these insects as these insects don't eat the leaves of the plants. **NEEM OIL** primarily attacks bugs that feed on plant material by inhibiting their feeding and causing them to die off.

Earthworms Will Thrive

Most conventional pesticides will kill off earthworms, removing a vital piece of your soil's ecosystem. Neem won't harm them, in fact, they'll thrive in a neem environment.

It Kills Pests Throughout Their Lifecycle

Many insecticides only target a specific stage of a pest's life: egg, larval, or adult. Neem is able to kill insects throughout their lifecycle because it works in a variety of ways:

1. Prevents feeding (adult stage) 2. Disrupts growth (larval stage) 3. Smothers out (egg / larval stage)

Blanket Control for 200+ Insects

NEEM OIL can provide your plants protection against more than 200 insects and pests.

Prevention Against Nematodes

Nematodes can decimate your plants but extracting neem in a specific way can help control even the most harmful nematodes. It prevents the larvae from hatching, stopping the reproductive cycle.

Natural Mosquito Prevention

Surprisingly, neem spray can also prevent mosquitoes from buzzing around in the garden. Mosquitoes will stay away from an area sprayed with neem.

Most Pests Don't Build a Resistance to Neem

One problem of synthetic pesticides is that bugs can build up a tolerance or resistance to certain substances. So far, it's not been reported that insects have built up resistances to neem use, meaning it's a future-proof solution.



Neem oil insecticide works as a systemic in many plants when applied as a soil drench. This means it is absorbed by the plant and distributed throughout the tissue. Once the product is in the plant's vascular system, insects intake it during feeding. The compound causes insects to reduce or cease feeding, can prevent larvae from maturing, reduces or interrupts mating behavior and, in some cases, the oil coats the breathing holes of insects and kills them.

It is a useful repellent for mites and used to manage over 200 other species of chewing or sucking insects according to product information, including: Aphids Mealybugs Scale Whiteflies.

BIOTECH DIVISION OF INDO GULF COMPANY

101, Blue Bell Building, Sitaram Compound,
Crawford Market, Mumbai 400001, India.

T : +91-22-23455354 | F : +91-22-23476536
E : indogulf@gmail.com | W : www.indogulfbioag.com

NEEM OIL

Neem Oil can be mixed with water and used in spray pumps to coat the aerial parts of the plants that come under attack from pests. As oil and water don't mix, Neem Power Oil comes with ready to use formulation which you can directly mix with water and start using on your plants.

Please prepare your neem spray by mixing the water & **Neem Oil** (Water Soluble) according to your need as directed in below table.

Purpose of Use	Concentration of Neem Spray	Qty of Water	Qty of Neem Oil	Frequency
No existing Infection: Only Prevention Measure	0.5% Concentrated	1 Liter 2 Liter 5 Liter	3-5 ml 7-10 ml 20-25 ml	Once in a Fortnight
To fight existing Infection	0.5% Concentrated	1 Liter 2 Liter 5 Liter	3-5 ml 7-10 ml 20-25 ml	Once in a week

Spray the neem oil mix solution on all the leaves, especially the undersides where insects like to hide. When spraying the first time, drench the soil around the roots as well. It does not hurt, neem oil is actually good for your soil.

Neem spray as a preventative measure: Spray once a fortnight using a 0.5 % concentrated solution. This should prevent any insect problems in the first place.

Neem spray to fight an existing infestation: Spray once a week using 0.5% concentrated solution until the problem is gone, then switch to a 0.5% solution every fortnight. Spray the neem oil mix solution on all the leaves, especially the undersides where insects like to hide. When spraying the first time, drench the soil around the roots as well. It does not hurt, neem oil is actually good for your soil.

Neem spray as a preventative measure: Spray once a fortnight using a 0.5 % concentrated solution. This should prevent any insect problems in the first place.

Neem spray to fight an existing infestation: Spray once a week using 0.5% concentrated solution until the problem is gone, then switch to a 0.5% solution every fortnight.

ATTENTION

This specimen label is provided for general information only.

- This biological product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state/provincial, and local laws and regulations regarding the use of biologicals.
- Before using any biological, be sure the intended use is approved in your state/province or locality.
- Your state/province or locality may require additional precautions and instructions for use of this product that are not included here.
- Indo Gulf Company does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the product label.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the biological you are using.

For application to seed in commercial seed treating equipment or for use in on-farm planting equipment.

Microbial seed inoculant for improving nutrient availability for increased yield potential.

NONPLANT FOOD INGREDIENT Not a fertilizer substitute

Warning: May form combustible dust concentrations in air [with packages greater than 25 kg].

Read the entire label before using this product. Use only according to label directions.

Open package only when ready to use. Use before expiration date.

Apply this product only as specified on this label. Reference the specified application rate to determine the proper amount needed for seed. Additional talc and/or graphite may be applied if needed.

Dust particles may cause slight eye irritation. May cause respiratory irritation. Causes damage to lungs by inhalation through prolonged or repeated exposure.

This product may cause adverse effects to individuals who are repeatedly exposed to it. Eye or skin contact, inhalation, or ingestion should be avoided. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, and eye protection. Avoid breathing dust. Ensure adequate ventilation. Use only outdoors or in a well-ventilated area. Where exposure through inhalation may occur, use respiratory protective equipment. Wash thoroughly after handling. If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

The active ingredients in product are Bacillus amyloliquefaciens and Trichoderma virens spores. This product contains microorganisms that may have the potential to provoke sensitizing reactions; use appropriate personal protective equipment (PPE) to reduce exposure. Sensitized individuals should wear an approved respirator. In case of contact with skin or eyes, immediately flush exposed areas with plenty of water. Get medical attention if irritation occurs.

Product contains live spores of the naturally occurring fungus Trichoderma virens and the naturally occurring bacteria Bacillus amyloliquefaciens, which may be damaged when exposed to high temperatures or contact with water for more than 4 hours. The live organisms contained in Product require specific storage conditions to ensure viability and product performance. To maintain product viability:

- Store unopened containers of Product in a dry cool place (less than 68°F or 20°C) away from sunlight and heat sources. Store locked up.
- Minimize temperature fluctuations.
- Avoid freeze/thaw cycles.
- Use before the expiration date. The expiration date is valid for unopened containers stored according to conditions listed above.
- Keep out of reach of children.

Unused Product and seed to which Product has been applied should be disposed of in accordance with applicable Federal, state/provincial, and local requirements.

The Seller warrants that this product contains a minimum number of Bacillus amyloliquefaciens and Trichoderma virens colony forming units, as specified on this label. The Seller makes no other warranty expressed or implied as to product viability or performance since product storage, use and growing conditions are beyond the Seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition. If this product does not perform as warranted above, and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of Indo Gulf Company.

BIOTECH DIVISION OF INDO GULF COMPANY

101, Blue Bell Building, Sitaram Compound, Crawford Market, Mumbai 400001, India.

T : +91-22-23455354 | F : +91-22-23476536
E : indogulf@gmail.com | W : www.indogulfbioag.com