

GreeNeem® Neem Oil

100% Cold Pressed

Fungicide

Anti-Feedant, Insect Repellent, Insect Growth Regulator,
Mycelial Growth Inhibitor

Insecticide

For use on floral and vegetable crops such as fruits,
citrus, nuts, ornamentals, including roses, shrubs and
foliage plants and agronomic crops such as hemp

Miticide

Nematicide

Active Ingredient:

Cold Pressed Neem Oil.....	100.0%
Other Ingredients	0.0%
Total.....	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

 FOR ORGANIC PRODUCTION

**READ ALL DIRECTIONS BEFORE USING
THIS PRODUCT**

Consult attached booklet on back panel for
Precautionary Statements, First Aid,
Directions for Use, Storage, Disposal, and Warranty



Shake Well Before Use

NET CONTENTS: 8 FL. OZ. to 55 GALLONS

©GreeNeem Agri Pvt Ltd.

Manufactured by:

GreeNeem Agri Pvt Ltd.

3-229, Varalotti, Villipathiri Post,

Virudhunagar, 626 001 IND

EPA Reg No.95993-1

EPA Est. No. 95993-IND-1

Batch No.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, shoes and socks, waterproof or chemical resistant gloves.

FIRST AID

If on skin or clothing:	<ul style="list-style-type: none">• Remove contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call Poison Control Center or doctor for treatment advice.
Have product label available when calling or visiting the doctor or Poison Control Center 1-800-222-1222. National Pesticide Information Center: 1-800-858-7378	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Waterproof or chemical resistant gloves

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions are available, wash with detergent and hot water. Store PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40CFR170.240(d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

ENVIRONMENTAL HAZARDS

Bee Hazard: This product is toxic to bees exposed to direct contact. Do not apply while bees are actively visiting the treatment area.

Terrestrial Uses: Do not apply directly to water or to areas where surface water is present, i.e. intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash or rinse water.

PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE. KEEP AWAY FROM HEAT AND OPEN FLAME.

User Safety Recommendations

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if contaminated with pesticide. Wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. Use product strictly in accordance with precautionary statements and directions, and with applicable state and federal regulations. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during product application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted- entry interval and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, i.e. plants, soil, or water:

- Long-sleeved shirt and long pants
- Shoes and socks
- Waterproof or chemical resistant gloves

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. For other uses, including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until spray has dried.

PRODUCT MODE OF ACTION

GreeNeem® Neem Oil 100% Cold Pressed controls target pests primarily by ingestion and by contact. The modes of action on insects are repellence, anti-feeding action and interference with the molting process. GreeNeem® Neem Oil controls target diseases by inhibiting mycelial growth.

GENERAL INFORMATION

Read all directions before using this product.

Apply Product as directed to any food or non-food crop up to and including the day of harvest, at a maximum rate of 3½ pints per acre (emulsified by using at least 11 fl. oz. of surfactant plus 40 gallons of water). In most cases, use a concentration of 0.5% in water plus surfactant. In case of severe infestation, use a 1.1% concentration. Do not use a concentration above 1.1%. Refer to the Mixing and Application Instructions for mixing and rate instructions and to Use Site Section for a complete listing of crops.

Do not store this product above 104oF or below 20oF for extended periods of time. Keep containers tightly closed and in original containers when not in use. Do not store exposed to ultraviolet light (sunlight) or moisture. Neem oil clouds and solidifies at temperatures below 59oF. If oil has solidified, gently thaw by exposing to temperatures over 80oF. Refer to thawing instructions below.

Avoid spraying under conditions of high humidity and high temperature (>90oF).

THAWING INSTRUCTIONS

1-Gallon bottles and smaller	If oil has solidified, thaw by standing bottle in warm water. Make sure cap is tightly closed. Avoid direct exposure to temperatures over 104oF. Alternatively, follow instructions #1 or 2 below for 55- gallon drums.
55-Gallon Drums	1.Set the drum (cap tightly closed) out in the sun in 80oF and over until melted. Do not expose to temperatures over 104oF. Move to a cool place after oil has melted. or 2.Set the drum (cap tightly closed) in a heated room, 80oF + until melted. Do not expose to temperatures over 104oF. Move to a cool place after oil has melted. or 3.Strap drum heating bands around drum, either one in the middle or one on top and one below. Set thermostat between 80-90oF
Do not introduce any kind of heating element into the drum and oil. This will destroy the active ingredients.	

MIXING

GreeNeem® Neem Oil 100% Cold Pressed is pure neem oil and requires a surfactant/emulsifier, a non-ionic surfactant/emulsifier or other emulsifier for dilution with water. Note: Product must be diluted with water and a surfactant in order to form an emulsifiable spray. Do not attempt application without adding adequate quantity of surfactant as improper emulsification will result in phytotoxicity such as leaf burn.

- Use a concentration of 0.5% (1 part of Product to approximately 200 parts of water).
- In cases of severe infestation, use 1.1% (1.1 parts of Product to approximately 100 parts of water). Do not use a concentration above 1.1%.•Do not attempt application without adding adequate quantity of surfactant as improper emulsification will result in phytotoxicity.
- Add the surfactant/emulsifier and product to a mixing tank with a water, and agitate. The ratio of surfactant to product must be in the ratio 1:5. For every pint of product, use at least 3 fl. oz. of surfactant. Then add the remaining water to the spray tank with continuous agitation. Use warm water if ambient temperature is below 60° F.
- Complete filling the tank with water. To prevent separation of the emulsion, mix thoroughly and continue agitation while spraying. Non-uniform mixing can cause crop injury or result in lowered effectiveness.
- For tank mixtures add components to the tank containing the spray mixture and agitating thoroughly. If tank mixture is allowed to sit, agitation is necessary prior to application.
- Adjusting the spray mixture pH between 5.5 and 7 will provide optimal performance.
- Always use this product promptly after mixing with water and do not let tank mix sit for any extended period. For optimal efficacy, use within 8 hours of mixing.

If the water is cold, use warm water to pre-mix the product and surfactant/emulsifier in a small container. Shake or stir well till milky and then add to the remaining water in the spray tank. Agitate or mix well to make sure the oil is completely emulsified before spraying. Increase surfactant/emulsifier, if needed.

COMPATIBILITY: Along with the recommended quantity of surfactant or emulsifier, **GreenNeem® Neem Oil 100% Cold Pressed** is best applied independently, but has been found to be compatible with tank mixes including liquid fertilizers such as fish emulsion and adjuvants like karanja oil, cottonseed oil, sesame oil and castor oil. Always read and follow the directions for use, precautions and limitations for use on all product labels used in combination. Applications must follow the precautions and limitations of the most restrictive product label in the mixture. Do not exceed the dosage rates of any product. Check compatibility by using the correct proportion of the products in a small test container. Test the tank-mix combinations for possible adverse effects (such as settling out, flocculation, etc.) and for phyto-toxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, in order to test for compatibility a test shall be conducted for both new and previously used combinations. Avoid mixtures of several materials and highly concentrated spray mixtures. Do not use if this oil does not form a uniform emulsion.

TANK MIX COMBINATIONS: The product in combination with the proper surfactant or emulsifier has been found to be compatible with most other tank mixes including fertilizers such as seaweed, kelp, fish emulsion and adjuvants like karanja oil, cottonseed oil and castor oil.

PHYTO-TOXICITY: When used according to label instructions, the product has been evaluated for phyto-toxicity on a wide range of crops and ornamentals. However, it is recommended that testing of a small portion of the area to be treated for phyto-toxicity be conducted before treating the entire area. Further, all possible mixtures of pesticide sprays, other fertilizers, surfactants, adjuvants, have not been tested. Therefore, testing for phyto-toxicity of spray mixtures is recommended. Spray equipment used to apply must be thoroughly cleaned before use. Tank mix combinations of the product may be incompatible with other oil-based formulations.

APPLICATION INSTRUCTIONS

Spray when the onset of pests (see Pest List) is detected. When used as a foliar application, spray the product in a suitable high volume sprayer with adequate spray pressure to ensure complete and thorough coverage of the plant surfaces. Ensure that both the top and bottom of leaves are wet. For optimum results, repeat the applications at intervals of 7-10 days. Use higher rates and increase spray frequency when pest pressure is high. Spray early in the morning or in the evening for best results. Repeat application if it rains within four hours of spraying.

SPRAY DIRECTIONS

Apply the product as a foliar spray or as soil drench to control insects. When needed, soil drenches may also be used to control soil borne pests and larvae of pests. When applied as a soil drench, avoid excessive run off. The product may also be applied through sub-surface soil treatment equipment. Always follow equipment manufacturer's use directions. The product may be applied using any powered or manual pesticide application equipment which includes high volume, low volume, and ultra-low volume, electrostatic and fogging devices. Consult and follow the original manufacturer's instructions when using these types of equipment.

RATES

For most pest and crop conditions, use 1-2 pints/acre using a 0.5% concentration of product in water. Use at least 3 - 6 1/2 fl. oz. of surfactant for emulsification, for example:

- 1 pint of product + 3 fl. oz of surfactant + 25 gallons of water
- 2 pints of product + 6 1/2 fl. oz. of surfactant + 50 gallons of water

In the case of very heavy pest pressure, use up to 3 1/2 pints per acre in a 1.1% concentration of the product in water. Use at least 11 fl. oz. of surfactant for emulsification, i.e.

- 3 ½ pints of product + 11 fl. oz. of surfactant + 40 gallons of water.

When used alone (without fertilizers or other pesticides) for sensitive crops such as lettuce, spinach and asparagus, use 6 fluid ounces per acre of product for a 0.5% concentration in water. Use 1 fl. oz. of surfactant for emulsification. The amount of product may be reduced by 50% when tank mixed with other compatible products.

Insect Use

Agricultural Insect Control		
Spray Target	% Concentration (Neem Oil to Water Ratio)	Spray Intervals
Citrus, Pome, Stone and Tropical Fruits	0.5% to 1.1% (1:200 to 1.1:00)	7 to 14 days
Cucurbits	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days
Small Fruits And Berries	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days
Nuts	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days
Legumes and Fruiting Vegetables	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days
Roots and Tuber Vegetables	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days
Vegetable , Cereal Grains & Other Misc. Crops	0.5% to 1.0% (1:200 to 1:100)	7 to 14 days

Fungicide Use

GreenNeem® Neem Oil 100% Cold Pressed controls powdery mildew, Botrytis, and suppresses stem mildew and sour rot on grapes. Do not apply with any sulfur or sulfur containing products within 14 days of an application.

Disease	Concentration	Rate	Spray Intervals
Powdery Mildew, rust, blackspot	Dilution Ratio of 1:50 or 2.0% neem oil to water	2.5 Tbsps.per gallon of water.	10-14 days from pre-bloom through veraison
Botrytis on grapes.			Spray at bloom, pre-bunch closure, veraison and 14 days after veraison

USE SITES

CROP USES – Use on crops and crop groupings such as: Alfalfa, Beans, Berries (including strawberries), Brassicas, Bulb Vegetables, Cereal Grains, Citrus fruits, Cole Crops, Cotton, Cucurbits, Fruits, Grapes, Hemp, Herbs, Legumes (including soybeans), Leafy and Fruiting Vegetables, Peanuts, Roots and Tubers (including potatoes), Pome and Stone Fruits, Tobacco, Tree Nuts and Tropical Fruits.

Other Plants – Use on other plantings including ornamentals, nurseries, fence rows and turf, i.e. golf courses, parks, and other grass areas.

TARGET PESTS - INSECTS and DISEASES

Aphids	Cotton Aphid, Cowpea Aphid, Green Peach Aphid, Mustard Aphid, OkraAphid, Pea Aphid, Rice Aphid
Beetles	Brinjal (Egg Plant) Spotted Leaf Beetle, Chick Pea Beetle, Cow Pea Beetle, Colorado Potato Beetle, Cucumber Beetle, Mexican Bean Beetle, Radish Flea Beetle, Red Pumpkin Beetle, Spotted Cucumber Beetle, Soybean Japanese Beetle
Stink Bugs	Tomato Stink Bugs
Caterpillars	Black Headed Caterpillar, Cabbage Caterpillar, Ear Cutting Caterpillar, Tobacco Caterpillar, Yellow Hairy Caterpillar ,Fall Armyworm
Leafhoppers	Brown Plant Hopper, Carolina Grasshopper, Leafhopper, Potato Leafhopper, Rice Brown Plant Hopper, Rice Grasshopper, Rice Green Leafhopper, Grape Leafhopper
Leafminers	Leafminers of Ornamental Plants, Tomato Leafminer
Whiteflies	Cotton Whitefly, Sugarcane Whitefly, Banded Wing Whitefly, Citrus Whitefly
Mealy Bugs	Mealy Bugs of Ornamental Plants and Grapes
Midges	Brassica Pod Midge
Mites	Spider Mites
Nematodes	Root Knot Nematodes, [Soybean Cyst Nematodes*]
Weevils	Black Vine Weevil
Scales	California Red Scale, Yellow Scale, Coffee Green Scale
Thrips	Peanut Thrips, Grape Thrips
Fungal Disease	Powdery Mildew, Stem Mildew, Botrytis, Sour Rot, Black Spot

*Except in California

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by pesticide storage or disposal.

PESTICIDE STORAGE: Do not store this product above 104°F or below 20°F for extended periods. Keep containers tightly closed and in original containers when not in use. Do not store exposed to sunlight or moisture. Neem oil clouds and solidifies at temperatures below 59°F. If oil has solidified, gently thaw by exposing to temperatures over 80°F. Store in such a manner to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep container closed when not in use.

PESTICIDAL DISPOSAL: To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: This is a non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

Five Gallon or Smaller Containers: Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container ¼ with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank or store rinse for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers Larger than Five Gallons: Triple rinse as follows -Empty remaining contents into application equipment or mix tank. Fill container ¼ with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinse into application equipment or mix tank or store rinse for later use or disposal. Repeat procedure two more times.

NOTICE ON CONDITIONS OF SALE

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Seller. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Seller makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Seller is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Seller disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Seller election, the replacement of product.

[Optional Marketing Claims]

- [Use] The Power of Neem
- [Cold Pressed] [Pure] Neem Oil
- Derived From Neem
- Plant-based [biopesticide] [spray]
- Botanical insecticide and fungicide
- Non-toxic [mode of] action
- Ready-to-Use [spray] [formula]
- Protect your plants from insects and diseases
- [4-in-1,] multi-purpose product – fungicide, insecticide, miticide and nematicide
- [For] Use as part of an Integrated Pest Management [program][strategy]
- GreeNeem Neem Oil 100% Cold Pressed is an effective biological fungicide, insecticide, miticide and nematicide for organic gardening use on vegetables, tree fruits, nuts and vines, citrus, ornamental flowers, shrubs and trees, grass lawns, and houseplants.
- For use on vegetables, [fruits,] [nuts,] [vines,] [citrus,] [ornamental plants,] [shrubs and trees,] [grass lawns,] [houseplants]
- [Also] controls aphids, [beetles,] [stink bugs,] [caterpillars,] [leafhoppers,] [leafminers,] [whiteflies,] [mealy bugs,] [midges,] [spider mites,] [nematodes,] [weevils,] [scales,] [and] [&] [thrips] [other listed insects and nematodes]
- Controls powdery mildew, botrytis, [stem mildew,] [and] [&] [sour rot]
- Use for the prevention and control of various fungal diseases such as powdery mildew, botrytis, stem mildew and others as listed on label.
- Can be applied up to day of harvest [as a [4 in 1,] multi-purpose product [– fungicide, insecticide, miticide and nematicide]]
- For use in and around home and home garden
- Peel Here for Directions & Precautions
- Concentrate
- [8 fl. oz. concentrate] [this bottle] makes up to 11 gallons
- [12 fl. oz. concentrate] [this bottle] makes up to 16 gallons
- [16 fl. oz. concentrate] [this bottle] makes up to 21 gallons
- [24 fl. oz. concentrate] [this bottle] makes up to 32 gallons
- [32 fl. oz. concentrate] [this bottle] makes up to 43 gallons
- [128 fl. oz. concentrate] [this container] makes up to 172 gallons
- [320 fl. oz. concentrate] [this container] makes up to 430 gallons