



**NEELAM AQUA &
Speciality CHEM
(P) LTD.**



"Connect with Nature"



Welcome to Neelam Aqua

We are leading manufacturer of Pure Neem Oil and Neem Oil based Insecticide formulations in India. We have gained expertise in seed extraction, purification process & formulation technologies to transform the natural Neem Oil into a powerful and effective insect growth regulator used as bio insecticides. These products are Biodegradable and Safe for Human use & to Non-Target Organisms. **Neelam** offers farmers' safe, effective and environment friendly crop protection and yield enhancement inputs that are certified for use in organic farming and integrated pest management (IPM) programs.

Neem is proven to be one of the most potent bio insecticides due to presence of active ingredient Azadirachtin, which shows broad spectrum activity and affects over 600 species of insects.

Moreover, these products are allowed for use in crop production under the National Program for Organic Production (**NPOP**).

We Manufacture

Pure Neem Oil is prepared in-house from carefully selected good quality Neem seeds via cold pressed extraction and double filtration.

Neem Cake is a natural fertilizer that contains macro (NPK) & micronutrients with Azadirachtin, which helps in both way for plant growth and for control of nematodes and soil based pathogens.

Neem Oil Insecticide formulation, with Azadirachtin as active ingredient, from 300 ppm to 50000 ppm concentrations are also prepared in-house with careful testing. These are broad spectrum Neem based pesticide covering over 600 species.

Neelcoat Neem Cake

Neem cake is a Bio-fertilizer that can be used for organic farms, agriculture, gardens and lawns. Neem cake is obtained from Neem seed kernel and consists of natural micro-nutrients with NPK.

Why use Neem Cake as a Fertilizer?

- Very Cost Effective.
- Better yield than chemicals fertilizers.
- Rich source of NPK and other Micro Nutrients.
- Improve soils organic content.
- Can be used in combination other fertilizers/Urea simultaneously
- Safe for earthworms.
- Slows Down the process of nitrification of urea.
- Enhance the yield by 48%.
- Decrease urea requirement, hence economical.
- Control nematodes, termites, pests and insects.
- Excellent soil conditioner and Natural Bio Pesticides.
- Environmental Friendly and Non Toxic.
- Convenient and easy to apply.
- Azadirachtin of Neem Cake is a famous natural Antifeedant, growth regulator and ovipositional repellent for insects, as a major active ingredient which make it a perfect alternative to chemical pesticides.

Nutrients Percentage

| | | |
|------|------------|-----------------------|
| (N) | Nitrogen | (2.0% to 5.0%) |
| (P) | Phosphorus | (0.5% to 1.0%) |
| (K) | Potassium | (1.0% to 2.0%) |
| (Ca) | Calcium | (0.5% to 3.0%) |
| (Zn) | Zinc | (15 ppm to 60 ppm) |
| (Cu) | Copper | (4 ppm to 20 ppm) |
| (S) | Sulphur | (0.2% to 3.0%) |
| (Mg) | Magnesium | (0.3% to 1.0%) |
| (Fe) | Iron | (500 ppm to 1200 ppm) |
| (Mn) | Manganese | (20 ppm to 60 ppm) |

Method of Application

Thorough mixing of cake with soil and deep ploughing gives better results than its application on soil surface to fight against root-knot nematodes. This cake is effective for longer durations, because it is decomposed rather slowly & this gradually released Nema-toxic substances for longer durations. Apply with any standard fertilizer spreader and incorporate into top 10-15 cm of soil. Neelcoat Neem Cake can be used by itself or can be combined with chemical fertilizer or organic manures such as farm yard manure, poultry manure, compost, press mud etc. Though we recommend mixing at least 25-50 % of Neelcoat Neem Cake, even as little as 10% shows excellent results. Before application drain excess water, maintain thin film of water in the field, Don't allow water to move out of treated field for a week. Ensure uniform application across the field. Apply during early crop stage.

Dosage

200-400 Kg per Hectare is normally sprayed.

Packaging

Neem Manure is available in
25 Kgs HDPE Bag.
50 Kgs HDPE Bag.
1 Ton Jumbo Bag.

Storage

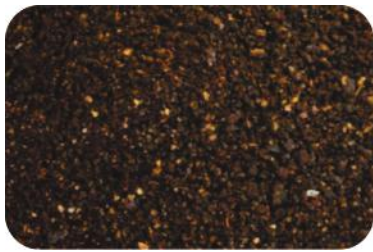
Store in a cool, dry & covered place. Do not store in direct sunlight.

For Gardens/Farms

10kg Plastic Bucket.
2 kg Plastic Bucket.
2 kg Cardboard Box.

Formulation

Available in pellet form and as a coarse powder.



NEEM CAKE POWDER



NEEM CAKE PELLETS



NEEM CAKE GRANULES

Recommended Crops:

Rice, , Wheat, Cotton, Sugarcane, Fruits, Vegetables, Spices, Coconut, Tea Gardens, Coffee Gardens Flower Plants, Golf Grounds, Tomato, Eggplant, Chilly, Okra, Black gram, Chickpea, Green gram, French bean, Papaya, Beta vine, Tobacco, Davaua, Banil, Cabbage, Cauliflower, Rice, Banana, Potato, Spinach, Reddish, Wheat, Sugarcane and many more.



Neem- “Amrit-Fal”

Neem based Insecticides (300ppm, 1500ppm, 3000ppm, 10000ppm, 50000ppm)

Neem- “Amrit-Fal” is an oil-based, emulsifiable concentrate formulation consisting of Neem oil. Its obtained from Azadirachta indica seeds. It is a Neem based biopesticide with a blend of various ppm Azadirachtin and Neem oil, providing all the limonoid for an effective insecticidal action. It is effective against sucking and chewing pests including Mites. With multiple mode of action, the insecticidal action is due to the presence of several neemlimonoids of which Azadirachtin is the most important. Azadirachtin concentration is maintained at a level of ~300, 1500, 3000, 10,000 ppm and 50,000 ppm in the formulation. **Neem - “Amrit-Fal”** gives best results when used as a preventive. Monitor the field continuously for pest attack. When the pest population is low or the damage system just begins to appear, apply a spray of “**Amrit-Fal**”. The spray is generally effective for Two weeks.

Salient Features

Neem “Amrit-Fal” is non-toxic to beneficial and non-target organisms.

It is generally compatible with chemical pesticides (unless highly acidic or highly alkaline) so as to provide complimentary activity in integrated pest management (IPM) programmes.

It leaves no residue in the soil, crop or the environment and is highly bio degradable.

An excellent alternative to hazardous chemical fungicides.

It is extracted using the Cold Press Extraction process and therefore, retains nutrients and active ingredients.

Effective pesticide, nematicides, insecticide, as well as miticide.

It is truly an environment friendly product.

Mode of Action

It exhibits various Behavioral Responses such as Antifeedant, Feeding Deterrent, Repellent, Oviposition Deterrent etc., and Physiological Responses such as Insect Growth Regulator, Molting Inhibitor, Reproduction Inhibitor, Antifertility etc.

Application Guidelines:

The emulsifiable concentrate can be easily diluted with water to make a colloidal suspension which should be sprayed on the crop. Being oil based, it is recommended that **Neem Amrit-Fal** be diluted with water in a separate container before filling into a spray pump. In order to avoid clogging of spray pumps, do not leave any left over mixture in it. Mix a fresh batch for each application. In case of rain, after spraying of **Neem “Amrit-Fal”** re-apply the dose. As **Neem - “Amrit-Fal”** is photodegradable, it is advisable to spray the

Neem- “Amrit-Fal”

mixture during evening hours. For 100% organic **Neem - “Amrit-Fal”** the natural emulsifier is sold separately and can be mixed with water along with **Neem - “Amrit-Fal”**.

Usage

- Apply as soon as pests are observed for better results.
- Apply during immature pest stages.
- Under high pest population, chemical application is also required.
- Use it in every 10-15 days depending upon the requirement.
- After spraying, if rain comes, then again apply the formulation.
- Good mixing is required before application.
- Avoid storage of spray mixtures. Mix a fresh for every application.
- Sprays during evening hours are preferable.

Dosage

Take a small quantity of water in a container and dissolve required quantity of **Neem- “Amrit-Fal”** in it. Stir this solution properly and mix it with the remaining quantity of water. The volume of total water required will depend on crop stage, crop cover, the total area to be treated and the type of sprayer used.

300 ppm - 5ml to 7ml / litre of water

1500 ppm - 4ml to 5ml / litre of water

3000 ppm - 3ml to 4ml / litre of water

10000 ppm - 2ml to 3ml / litre of water

50000 ppm – 0.5ml to 1.5ml / litre of water

Packaging

| | | |
|------------------------|------------------------|-----------------------|
| 1000 Litre IBC | 200 Litre barrel | 5 Litre Cardboard Box |
| 1 Litre plastic bottle | 500 ml. plastic bottle | |

Storage

Store in a cool, dry place away from direct sunlight.

A LIST OF A FEW CROPS AND PESTS ON WHICH NEEM - “AMRIT-FAL” IS EFFECTIVE

| ID | Crops | Pests |
|----|---|---|
| 1 | Vegetables | Shoot and fruit borer, Stem borer, Leaf miners, Fruit flies, Semiloopers, Spotted beetles, DBM, Leaf Webbers, Scales, Mites, Nematodes |
| 2 | Fruit Crops(Mango, Guava, Grapes, Sapota, Pomegranate, Pineapple, Banana, Cashew, etc.) | Hoppers, Stem borers, Fruit borers, Fruit flies, Leaf miners, Flea beetles, Fruit sucking moths, Leaf Webbers, Tea mosquito , Mealy bugs , Thrips |
| 3 | Tomato | Leaf miners, fruit borer, white fly, Aphids, Nematodes |
| 4 | Egg Plant | White flies Red spider mites, Shoot & fruit borer, Nematodes |
| 5 | Cotton | Whiteflies, Aphids, Leafhoppers, American bollworm, Spodoptera litura , Red spider mites , Spotted bollworm, Thrips, Pink bollworms, Cotton Stainers, Helicoverpa armigera, Heliothis |
| 6 | Rice | Leaf folder, Army worms, Ear head bug, Stem borer, Rice hispa, Brown plant hopper, Gall midge, Thrips, Nematodes |
| 7 | Floriculture | Whiteflies , Red spider mites |
| 8 | Sugarcane | Early shoot borer, Internode borer, Whiteflies, Stem borer, Top borer, White grubs, Leaf hoppers, Scales, Mealy bugs, Nematodes |
| 9 | Coconut, Areca nut, Oil Palm , Date Palm | Eriophyid mite, Black headed caterpillar, Red palm weevil, Mealybugs, Rhinoceros beetle, White grubs, Scales, Inflorescence caterpillars |
| 10 | Cucumber | Spot mites, Nematodes |
| 11 | Oil seed crops (Groundnut, Sunflower, Gingely) | Leaf miner, Red pod flies, Thrips , Helicoverpa, Hairy Caterpillar, Prodenia, Aphids, Stem borers, Nematodes |
| 12 | Millets (sorghum , Ragi , Maize) | Shoot fly, Stem borer, Ear head bug, Midge, Pink borer, Cut worms, Flea beetles |
| 13 | Wheat | Red flour beetle |
| 14 | Cashew | Stem borer, Root borers, Tea mosquito bug |
| 15 | Tea | Thrips , Purple mites, Looper caterpillar, Pink mites, Flush worms, Tea mosquito bugs, Red spider mites |
| 16 | Coffee | Scale insects, Coffee Stem borer, Berry borer, Mealy bugs |
| 17 | Red Rose | Red Scale insect |
| 18 | Tobacco | Tobacco caterpillar, Nematodes |



Neem- “Amrit-Fal” FG

Neem - “Amrit-Fal” FG is Neem oil based botanical fungicide. It is effective in controlling all mildews, sheath blight and rust diseases & prevention of fungal diseases such as sheath blight, anthracnose, black spot, powdery mildew and rust. **Neem - “Amrit-Fal” FG** prevents fungal spores from penetrating plant tissue and slows the advance of fungal diseases.

Salient Features

Neem- “Amrit-Fal” FG is an economical product for disease management. It can be used both as a preventive and a curative fungicide. Supplemented with over 100 potent bioactive limonoid. High relative efficacy among Azadirachtin products. Good UV stability on plants. Tran's laminar effects on plants. Broad spectrum of pest control. Free from Neem oil and impurities. Better stability and storage worthiness. Minimizes residue concern on crops. Excellent phytotonic effect. Improves cosmetic value & yield. It is a truly environment friendly product.

Dosage

Take a small quantity of water in a container and dissolve required quantity of **Neem- “Amrit-Fal” FG** in it. Stir this solution properly and mix it with the remaining quantity of water. The volume of total water required will depend on crop stage, crop cover, the total area to be treated and the type of sprayer used.

Strength: 300ppm
Mix 5ml/1 litre of water.

Packaging

1000 litre IBC, 200 litre barrel, 5 litre Cardboard Box, 1 litre plastic bottle

Storage

Store in a cool, dry place away from direct sunlight.

Water Soluble Fertilizer:

Agriculture requires maximum amount of land and water. these two resources are limited on this planet - EARTH.

With the growing population the usage of these two resources require utmost attention of the scientists throughout the world.

Under the guidance of Dr. Suresh Singh, the company “Neelam Aqua & Speciality Chem”, has started developing advanced grades of fertilizers. These fertilizers are aimed to give- **More crop per Drop of Fertilizer Solution.** They are fully soluble and have several advantages. Some of them are as given below:

Advantages

- A Suitable for use in all fertigation system (Sprinkler/ Drip/ Pivot), and as foliar application and compatible with a wide range of fertilizers.
- B Enhance tolerance level of plants against environment and biotic stresses.
- C Improves the crop's nutritional value, taste, & appearance and enables plant more resistant to draught, frost, insects and disease attack.
- D Plays very important role in maintaing soil pH near root zone and helps against clogging of irrigation system by salts depositions like carbonates and bicarbonates.
- E Increases yield and improve quality and shelf-life of fruits.
- F Provides three essential nutrient elements to plant required for vegetative growth.
- G Free from chlorine and safely used in saline soils, in all irrigation system and as foliar application especially at vegetative growth stage.
- H Boosts rooting and improves flowering.
- I Improves fruit firmness and increase its ability to storage. Plants directly take these fertilizers through small opening called stomata.

Packaging

25 Kgs HDPE Bag, 50 Kgs HDPE Bag, 1 Ton Jumbo Bag.

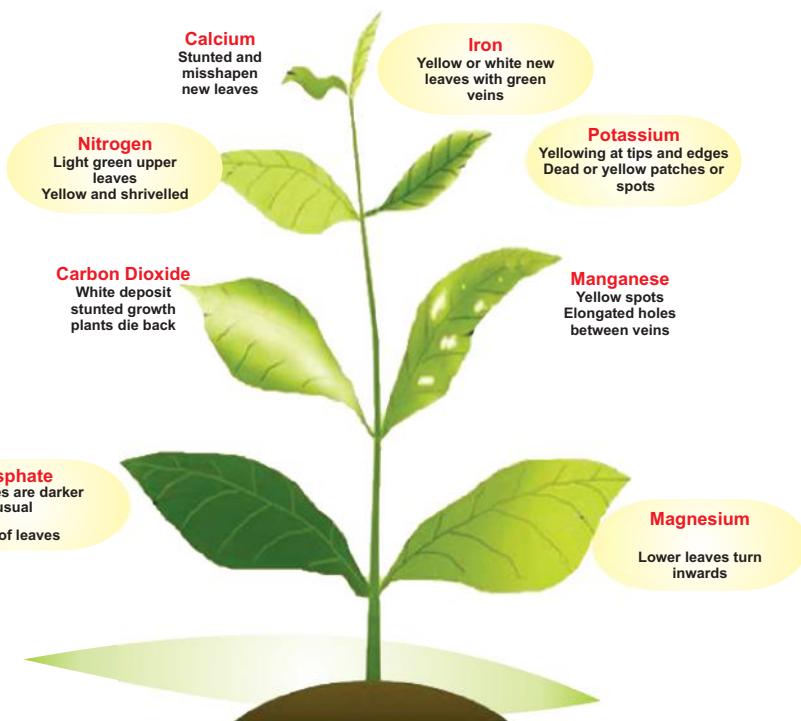
Storage

Store in a cool, dry & covered place. Do not store in direct sunlight.



Signs of Nutrient Deficiency

Plants suffer from malnutrition, due to deficiency of nutrients. Here are some common signs of nutrient deficiency :



100% WATER SOLUBLE FERTILIZERS

PRODUCT LIST :

- Calcium Nitrate
- Urea Phosphate
- Potassium Nitrate
- Potassium Sulphate
- Urea Phosphate With SOP
- Ammonium Poly Phosphate
- Mono Potassium Phosphate
- Mono Ammonium Phosphate
- Ammonium Nitrate Phosphate
- Potassium Magnesium Sulphate



Our R&D

The advanced testing facilities using sophisticated and precise instruments has enabled us to develop latest products. The Research & Development works 24 hours and 365 days. Our technological innovation has been admired by the industry all over the world.

QC Department

The Quality Control Department checks all the processes of manufacturing and the quality control of the finished products. Our Quality Control department assures that the products are being manufactured as per international standards.



| N | P | K |
|----|----|----|
| 18 | 18 | 18 |
| 19 | 19 | 19 |
| 20 | 20 | 20 |
| 12 | 61 | 0 |
| 00 | 52 | 34 |

| N | P | K |
|----|----|----|
| 13 | 0 | 45 |
| 06 | 12 | 36 |
| 17 | 44 | 0 |
| 00 | 00 | 50 |
| 13 | 40 | 13 |

Grades



**NEELAM AQUA &
Speciality Chem
(P) Ltd.**

NEELAM AQUA

AN ISO 9001 COMPANY



Worldwide Factories & offices



NEELAM AQUA & Speciality Chem (P) Ltd.



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