

## **MARGOSOM® NKC** Neem Kernel Cake

### **Introducing MARGOSOM® NKC**

MARGOSOM® NKC is derived from Neem Seed Kernels. Neem Seed Kernels are cold pressed to get Neem Kernel Cake and Cold Pressed Neem Kernel Oil (CPNKO). The Neem Kernel Cake (NKC) can be used in the same form or blended with pulp and husk to be used as Neem Cake.

MARGOSOM® NKC is an organic fertilizer containing N, P, K, minor and trace elements in readily absorbable form. It also contains Neem bitters which help in controlling soil insects, fungal pathogens, termites and nematodes.

MARGOSOM® NKC can be mixed with urea and other fertilizers, it acts as good nitrification inhibitor due to its bitter limonoid constituents of Neem oil, which makes the soil more fertile by blocking soil bacteria from converting nitrogenous compound into useless nitrogen gas in the soil and thus nitrogen (urea) loss is minimized.

MARGOSOM® NKC can be used as soil amendment. It improves soil texture, pH, Oxygen level, nutrient status and soil structure.

It supplements humus and increases the water holding capacity.

It plays vital role in reclaiming waste land, saline and alkaline, acidic soils and desert soils. These soils can be converted into potential cultivable land by using MARGOSOM® NKC.

### **A Historical Brief**

Neem seed kernel decoction and neem leaf powder decoction have been used by farmers in India for centuries for protecting crops against pests.

Azadirachtin was first extracted from the Indian neem tree in 1968, but its structure was not correctly determined until 1985.

In India, Bambarkar in 1990 presented a table showing the activity of neem against twenty species of insect pests, ten nematodes and several fungi.

## Mode of Action

MARGOSOM® NKC supplements the soil with essential macro and micro nutrients thereby improving soil nutrient composition and structure. The limonoids present in the Neem Cake have a fungistatic effect and suppress nematodes thereby exhibiting a fungicidal/nematicidal property.

## Method of Application

Soil application: Apply MARGOSOM® NKC @ 300 Kg / acre of soil at the time of land preparation.

## Target Nutrition

Nitrogen , Phosphorus , Potassium and micro nutrient supplementation

## Target Pest

Suppresses nematodes , Fungistatic

## Crops

MARGOSOM® NKC is suitable for application on Cereals , Millets , Pulses, Oilseeds, Fibre Crops , Sugar Crops , Forage Crops , Plantation crops ,Vegetables, Fruits, Spices , Flowers , Medicinal crops , Aromatic Crops , Orchards and Ornamentals.

## Compatibility

MARGOSOM® NKC is compatible with chemical fertilizers and BioFertilizers

## Shelf Life

MARGOSOM® NKC is stable for a period of 24 months from the date of manufacturing.

## Mass Composition

CONSTITUENT	W/W %	FUNCTION
Neem Kernel Cake	100% Organic cake	Active

## BIOLOGICAL COMPOSITION

### CONSTITUENT

Neem Kernel Cake

### POTENCY

-

Free from Salmonella, Shigella , E.Coli

## Cautions for handling and use of product

1. Direct incidence of MARGOSOM® NKC on eyes may be irritating. It is suggested that the operator wears eye goggles, face mask and protective clothing while handling the product.
2. Surplus MARGOSOM® NKC may be disposed in crop lands .Do not dispose in stagnant water / flowing water where there is a possibility of causing pollution to natural resources.
3. Do not eat / drink / smoke during formulation.

## Symptoms and Antidotes

**Symptoms:** Occasional symptoms include head ache and nausea.

**Antidote:** In the case of ingestion: symptomatic treatment is advised. In the case of contact with Eyes: Flush with water liberally for 20 minutes. In case of Skin contact, wash the affected area with plenty of water and soap.

## Citations

There are many citations in public domain on uses of Neem Kernel Cake.

## Commitment to Nature

- MARGOSOM® NKC is safe to natural parasites, pollinators and predators.
- MARGOSOM® NKC can be used as an effective component in INM/IPM programmes, thereby leading to a reduction in use of chemical fertilizers and creating a safer environment.
- MARGOSOM® NKC does not lead to residue problems and doesn't cause resistance or resurgence problems.

## Benefits from MARGOSOM® NKC

- MARGOSOM® NKC supplements N, P,K and other essential micro nutrients.
- Balanced fertilizer use leads to improved plant health and thereby increased crop productivity.