

DERISOM® Cake
Pongamia/Karanj Cake
BioFertilizer

Introducing DERISOM® Cake

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

DERISOM® Cake can be mixed with urea and other fertilizers, it acts as good nitrification inhibitor due to its bitter limonoid constituents of Karanj 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.

DERISOM® Cake 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 DERISOM® Cake.

A Historical Brief

Karanja plant and its uses have been described in old Ayurvedic scriptures.

Karanjin -the bitter principle of Karanja was first extracted by Limaye in 1925 by shaking the oil with alcohol. Rajagopalan et al in 1946 obtained kanugin II from the karanja roots. The structures of karanjin and kanugin were established through degradation and synthesis by Seshadri and Venkateshwarulu in 1941 and by Rao and Seshadri in 1946.

Mode of Action

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

Method .of Application

Soil application: Apply DERISOM® Cake @ 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

DERISOM® Cake 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

DERISOM® Cake is compatible with chemical fertilizers and BioFertilizers

Shelf Life

DERISOM® Cake is stable for a period of 24 months from the date of manufacturing.

Mass Composition

CONSTITUENT	WW %	FUNCTION
Karanj Cake	100% Organic cake	Active

BIOLOGICAL COMPOSITION		
CONSTITUENT		POTENCY
Karanj Cake		-

Free from Salmonella, Shigella , E.Coli

Cautions for handling and use of product

1. Direct incidence of DERISOM® Cake on eyes may be irritating. It is mandated that the operator wears eye goggles, face mask and protective clothing while handling the product.
2. Surplus cake may be safely 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 application.

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 effectiveness of Karanj Cake/Pongamia Cake as a BioFertilizer.

Commitment to Nature

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

Benefits from DERISOM® Cake

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