

# **Mn Sol B TM**

## **Introduction :**

Shakti MN is a biological fertilizer based on a selected strain of naturally-occurring beneficial aerobic fungus *Penicillium citrinum* (MTCC - 3303 ) . *Penicillium citrinum* is used as an effective soil inoculant.

Shakti MN contains conidiospores of *Penicillium Citrinum* . It is formulated as Wettable Powder with CFU count of  $5 \times 10^7$  / g. Shakti MN is approved for use in Organic Agriculture.

## **Mode of Action :**

**Fungal growth :** The conidiospores start germinating and produce mycelia in the soil. These mycelia grow by utilizing the root exudates of the plant as a energy source and release organic acids as a product of their metabolism. Organic acid production: *Penicillium citrinum* solubilizes the fixed manganese present as manganese oxides by release of organic acids such as citric acid and oxalic acid.

## **Method of Application :**

**Seedling treatment :** Mix 100 gm Shakti MN with sufficient quantity of water and organic manure to form a slurry. The seedlings are dipped in this slurry for 30 minutes prior to planting so that the fungus gets attached to the roots.

**Soil application :** Mix 3-5 Kg/ acre of Shakti MN with compost and apply to an acre of soil.

**Drip Irrigation :** Mix 3 Kg/ acre of Shakti MN in drip stream

## **Crops :**

Shakti MN 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.

## **Shelf Life :**

Shakti MN is stable for a period of 1 year from the date of manufacturing.