

BioMicro

Micronutrient mobilizing liquid biofertilizer



BioMicro, a biological mix, is capable of mobilizing Iron, Zinc and Sulphur and making them available to the plant. This combination of selected and compatible bacteria acts to give essential micronutrients to the plant. Iron mobilizing bacteria efficiently make iron available to the plant. The metabolites secreted by microorganisms into the soil as strong chemical reagents and the activities of microbial enzymes are principal factors in this process. Sulphur Mobilizing bacteria - mobilize insoluble and chemically fixed sulphates and make them available to the plant Zinc mobilizing bacteria - play an important role in increasing the availability of Zn in soil, thus enhancing Zn accumulation. It fortifies the soil with bacterial metabolites . BioMicro produces many organic acids like Ferric acid, Nicotinic acid, Tartaric acid, Mallic acid etc. resulting in an overall increase in the availability of important micronutrients in the rhizosphere.

We also provide the constituent bacteria strains of BioMicro as individual biofertiliser products for specific application.

Common dosage for all biofertilisers:

Soil application :

1 Litre per acre. Applied either through a drip system or mixed with 1 ton of organic manure , preferably leaving a 7 day gap on either side before applying chemical fertilizer or pesticide.

Seed treatment :

5ml to 7ml per kg of seed.

Seedling dipping :

Mix 50ml-70ml in 15 litres of water & dip the seedling for 10 minutes before transplanting.

Tree treatment :

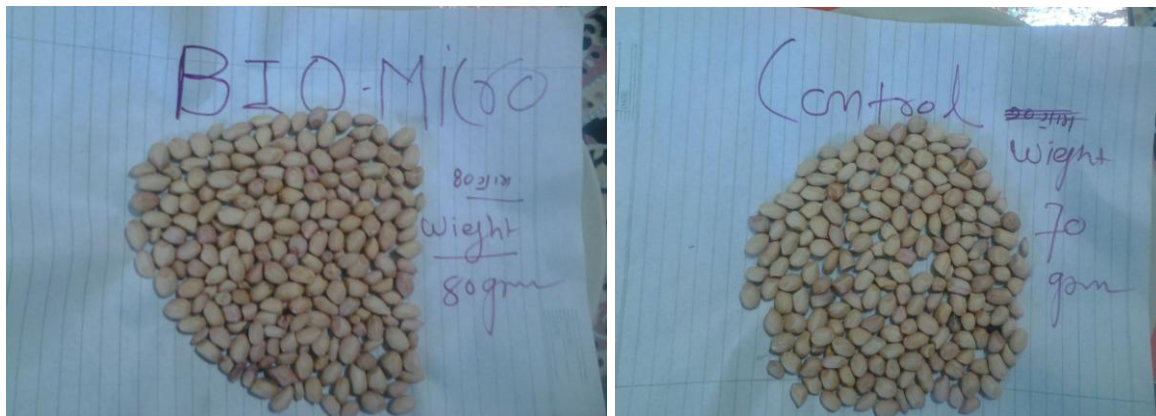
Dilute and spray @ 200 ml/acre.

Results of Bio Orgo :

Bio micro result in Ground Nut



Comparison of BioMicro with other Control :





Certificate of Analysis

BIOMICRO

Micronutrient Mobilizing Liquid Biofertilizer

Batch No. : 140814
Date of analysis : 01/08/2014
Mfg. Date : 01/08/2014
Expiry Date : 01/08/2015

Sr. No.	Characteristic	Requirement	Results Obtained
1	Color	Pale Yellow	Complies
2	pH	6.9	Complies
3	Physical nature	Liquid	Complies
4	Count	1×10^8 Cell/ml	Complies

Remark: The above product complies as per specification.

For Nico Orgo Manures

For Nico Orgo Manures

Quality Control Dept.

Partner

Microbiologist

Material Safety Data Sheet

NICO ORGO MANURES

***** 1. Chemical Products and Company Identification *****

Product Name : BIO MICRO
Produce Code : Ferrous + Sulphur + Zn mobilizing bacteria
Chemical Formula : Mixture
Other Designations : Liquid Formulation Containing Agriculturally
beneficial microorganisms.

Company :

NICO ORGO MANURES

Opp. Railway Station,

Dakor – 388 225.

(Gujarat – India)

Phone : +91-2699-244403, 244611

Fax : +91-2699-244903

***** 2. Composition / Information on Ingredients *****

No Hazardous Ingredients.

Contains naturally-occurring, non-pathogenic, microorganisms in liquid formulation. This includes Bacillus coagulans popularly used in agriculture for phosphate solubilizing. See Product label for method of application, dosage and recommendations. Not for food, feed or drug use.

***** 3. Hazards Identification *****

Emergency Overview : No known health hazards

Primary Entry Routes : Oral (swallowing), Inhalation

Acute Effects (Signs and Symptoms of Overexposure) :

Eyes : Liquid may cause mechanical irritation of eyes

Skin : No known hazard

Inhalation : Inhalation of large amounts may cause discomfort

Ingestion : No known hazard

Chronic Effects : No known hazard

Medical Conditions Aggravated by Exposure : None known

Target Organs : None

Carcinogenicity : None

HMIS : Health – 0, Flammability – 0, Reactivity – 0

***** **4. First Aid Measures** *****

Eyes : Flush with water for at least 15 minutes. Get medical attention if irritation persists.

Skin : Wash with soap and water

Inhalation : Remove person to fresh air. Get medical attention if discomfort Persists

Ingestion : No treatment necessary

***** **5. Fire Fighting Measures** *****

Flash Point : None

Autoignition Temperature : Not Applicable

Explosive Limits : LEL: Not Applicable

UEL: Not Applicable

Extinguishing Media : Use media suitable for surrounding fire

Unusual Fire or Explosive Hazards : Not Known

Fire Fighting Instructions : No special requirement

***** **6. Accidental Release Measures** *****

Large Spill / Leak Procedure : Contain spill and recover for use or disposal

Small Spills : Flush area with water

***** **7. Storage and handling** *****

Storage Requirements : Store in original container in clean, cool and dry place. Use before expiration date printed on package

Handling Precautions : No special handling requirements. Follow normal hygienic and housekeeping standards for agricultural products

***** **8. Exposure Control / Personal Protection** *****

Ventilation : Special ventilation is not required

Protective Clothing / Equipment : No special requirement

Respirator : Not required

Contaminated Equipment : Clean with soap and water

Comments : Practice general personal hygiene
after using this product. Wash hands
with soap and water before eating,
drinking or smoking.

***** **9. Physical and Chemical Properties** *****

Physical State : Liquid
Colour : Light yellow
Odour : Mild
Water Solubility : Soluble
% Volatile volume : Not determined
Specific Gravity : -
Vapour Pressure : Not determined
Vapour Density : Not determined
pH : 6.5 – 7.5
Melting Point : Not Determined
Boiling Point : N.A.
Freezing Point : N.A.

***** **10. Stability and Reactivity** *****

Stability : Stable
Conditions to avoid : None
Hazardous Polymerization : Will not occur
Chemical Incompatibilities : Avoid contact with any chemical
Hazardous products of decomposition : None

***** **11. Toxicological Information** *****

Eye Effects / Eye Irritation : Non-irritating
Acute Oral Effects : None
Acute Inhalation Effects : None
Acute Dermal Effects : None
Skin Irritation : Non-irritating
Skin Sensitization : Not a skin sensitizer

***** **12. Ecological Information** *****

The product contains non-pathogenic bacterial strains that occur naturally in soil and is biodegradable.

***** **13. Disposal Consideration** *****

Disposal: Small amounts of the product which cannot be used according to the label instructions may be disposed off in a landfill

RCRA Waste Status: This product is not regulated as a hazardous waste. State and local regulation may affect the disposal of this product. Consult your state, local or provincial environmental agency for disposal of waste other than by use according to instructions.

***** **14. Transport Information** *****

Transportation Data : This product is not regulated as a hazardous material for all modes of transportation

Hazard Class : Not Applicable

ID No. : Not Applicable

***** **15. Regulatory Information** *****

TSCA : All components of this product are

listed on TSCA Inventory

SARA Section 313 : Contains no reportable components

OSHA Hazard Classification : Non Hazardous

Proposition 65 : Contains no components subject to
Warning requirement

WHMIS / Controlled Products Regulations : This products has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all of the information required by the CPR

***** **16. Other Information** *****

NFPA Ratings

Health : 0

Flammability : 0

Reactivity : 0

Specific Hazard : Not Applicable

Information presented on this Material Safety Data Sheet is believed to be accurate at the time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner / conditions of use, storage or local regulations.
