

# BioAll

## Nutrient mobilizing liquid Biofertilizer



BioAll has the unique ability to enrich the soil with Nitrogen, Phosphorous and Potash. It efficiently fixes atmospheric nitrogen, solubilizes insoluble and chemically fixed phosphates and has the ability to mobilize and solubilize soil potash and insoluble potash compounds thus making all three of these essential nutrients available to the plant in a ready, available form.

It also enhances the availability of Mn, Mg, Fe, Mo, Bo, Zn and Cu, among others, in the soil. BioAll provides the major nutrients (NPK) to the soil which results in higher yield. BioAll produces certain growth promoting substances such as Thiamine, Indol and Acetic Acid which help impart resistance to the plant from plant pathogens such as Alternaria and Fusarium.

It produces organic acids like Citric, Tartaric, Malic which increase the availability of phosphates in the rhizosphere.

BioAll is a blend of beneficial micro organisms which together fix atmospheric nitrogen, solubilize insoluble and chemically fixed phosphates and mobilize soil potash compounds.

The micro-organisms responsible for the contribution of N to the soil:

- Nitrogen fixation is the most conspicuous physiological characteristic of *one of the components* of **BioAll**. The organism has the ability to grow and give the plant a nitrogen source *even in the absence of an alternate nitrogen source*.
- Plant growth promoting organisms fix N in micro-aerobic and aerobic environments and avoid excessive concentrations of oxygen through high respiration consumption of oxygen by colonizing sites with low partial pressure of oxygen, such as in submerged rice roots.
- They contribute to increased yields of cereal and forage grasses by improving root development in properly colonized roots, increasing the rate of water and mineral uptake from the soil, and by biological nitrogen fixation.

**P solubilizing activity:**

- Both inorganic and organic phosphates exist in soil. The inorganic forms are compounds of calcium, iron, aluminium, etc.
- Insoluble inorganic compounds of phosphate are largely unavailable to the plants, but **BioAll** can bring the phosphate into solution.
- It will not only assimilate the element but also make a large portion soluble.

**K mobilizing activity:**

- Potassium is an essential major plant nutrient and also a non-renewable resource. It plays a vital role in plant metabolism such as photosynthesis, translocation of photosynthates, regulation of plant pores (stomata), activation of plant catalysts (enzymes) and imparts resistance in plants against pests and diseases.
- Without adequate potassium, the plants will have poorly developed roots, grow slowly, produce small seeds and have lower yields. They are also more susceptible to disease infection. Majority of the soils of the world are too low in available potassium for production of good yields.

The micro-organisms present in BioAll are known to solubilize potassic minerals into soluble form which can be utilized by the plants.

**Dosage:****Soil Preparation:**

3 litre per hectare. 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 @ 600 ml/hectare.

**Available Packaging:**

250 ml HDPE Bottle

500 ml HDPE Bottle

1 ltr HDPE Bottle

5 ltr Carboy

# BioAll Result in Tobacco Crop



## BioAll Result in Tobacco Crop



WITH BIOALL



WITHOUT BIOALL

## BioAll Result in Chilli Crop



WITH BIOALL



WITHOUT BIOALL

# Certificate of Analysis

## **BIO All**

### **Nutrient mobilizing liquid biofertilizer**

Batch No. : 140748  
Date of analysis : 03/07/2014  
Mfg. Date : 03/07/2014  
Expiry Date : 03/07/2015

<b>Sr. No.</b>	<b>Characteristic</b>	<b>Requirement</b>	<b>Results Obtained</b>
1	Physical State	Liquid	Complies
2	Colour	Pale Yellow	Complies
3	Count	$1 \times 10^8$ Cell/ml	Complies
4	pH	7.00	Complies
5	Odour	Mild	Complies

**Remark:** The above product complies as per specification.

**For Nico Orgo Manures**

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**Quality Control Dept.**  
Microbiologist

**Partner**

# Material Safety Data Sheet

## NICO ORGO MANURES

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

Product Name : BIO ALL  
Produce Code : Nitrogen fixer + PSB + Potash 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.

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