

K-Sol

Potash mobilizing liquid biofertiliser



K Sol is an eco-friendly bio-input which solubilizes and mobilizes the chemically fixed soil potash and insoluble potash compounds to an available form by separating them from the soil particles. It enhances the availability of Mn, Fe, Mo, Bo, Zn, Cu, etc. in the soil if present in a non-available form. It leads to early crop development by inducing early rooting and by aiding quick cell development in plants.

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.

Advantages :

- Fortify the soil with bacterial metabolites & are cheap and easy to handle.
- Have the ability to fix , solubilize and mobilize and cause uptake of N,P and K.
- Impart resistance against insect pests and diseases and against plant pathogens like Alternaria, Helminthosporium and fusarium(N-Fix).
- Help to reduce environmental pollution and the high costs , which result from chemical fertilizer usage and its residues, K-Sol can save 30-40% of inorganic fertilizer.

Certificate of Analysis

K-SOL

Potash Mobilizing Liquid Biofertilizer

Batch No. : 140813
Date of analysis : 01/08/2014
Mfg. Date : 01/08/2014
Expiry Date : 01/08/2015

Sr. No.	Characteristic	Requirement	Results Obtained
1	Color	Off White	Complies
2	Ph	6.8	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

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Quality Control Dept.

Partner

Microbiologist

Material Safety Data Sheet

NICO ORGO MANURES

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

Product Name : K Sol
Produce Code : Frateuria aurantiua-Potash mobilizing bacteria
Other names : Acetobacter aurantium (Kond and Ameyama 1958)
Other Designations : Liquid Formulation Containing Agriculturally
beneficial microorganisms.

Company:

NICO ORGO MANURES

Opp. Railway Station,

Dakor-388225.

(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. 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 does not cause irritation of eyes

Skin : No known hazard

Inhalation : Inhalation does not 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 : Wash with water

Skin : Wash with water

Inhalation : No effect.

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

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Small Spills : Does pose any hazard.

***** 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 : Off white
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.
