

### SECTION 1: Identification of the substance/ company

#### Product identifier

Trade name: Product Name: KEEP-IT-FRESH Sachet

Details of the supplier of the safety data sheet Manufacturer/Supplier:  
KEEP-IT-FRESH

UNIT1: Plot no. 18 Sector 06, IMT Manesar, Haryana

UNIT 2: B-31 OPP. POWER HOUSE, CHANDIGARH ROAD, LUDHIANA

Tel: +91 161 3260700, 3250700,2680790

International 24 hr : + 1 214 774 2171

Email: info@keep-it-fresh.com

web: www.keep-it-fresh.com

### SECTION 2: Hazards identification

Markings on label:	Not applicable
Chemical product hazards identification:	Product presents hazards due to the exposure to active ingredient
Hazards to human health	
Effects of acute over-exposure (one time only):	Skin irritation, dermatitis.
Inhalation:	Lengthy exposure may irritate respiratory tract.
Skin contact:	Frequent and lengthy contact may cause skin irritation.
Eye contact:	Contact with active ingredient or product activation may cause eye irritation.
Ingestion:	The irritant effect of the product can cause nausea and vomiting. In large doses, product may cause stomach cramps, diarrhea.
Effects of chronic over-exposure (long term) :	There is no evidence of carcinogenic, mutagenic or teratogenic effects.
Medical conditions aggravated due to exposure to product:	Respiratory problems and sensitive skin.
Hazards to the environment:	Not applicable as final product.

### SECTION 3: Composition/information on ingredients

Chemical name	: Zeolite 3A 4A powder sodium-calcium based
Synonym	: KIF Sachets!, Ethylene eater, Ethylene Adsorbent, Gas Adsorbent
Atomic weight	: 190.105 (Active Ingredient)
Synonyms	: Ethylene absorber,
CAS No	: 7681-57-4 (for Active Ingredient)
UN No	3077

### SECTION 4: First aid measures

If accidental contact with product occurs, proceed as follows:

Inhalation: Remove victim from exposure sources, take to open air and seek medical assistance. If breathing is irregular, administer artificial respiration. If respiratory arrest occurs, apply cardio-pulmonary resuscitation (CPR). Seek medical assistance.

Skin contact: If contact with active ingredient occurs, remove contaminated clothes and wash contaminated skin with

abundant water for at least 20 minutes. If irritation persists, seek medical assistance.

Eye contact: If contact with active ingredient occurs, flush eyes with abundant water for at least 20 minutes, trying to remove substance from eyes. Do not manipulate, do not open product. Seek medical assistance if irritation persists.

Ingestion: DO NOT manipulate generators, do not open, DO NOT feed anything by mouth to an unconscious person. DO NOT induce vomiting. Flush mouth with abundant water. Seek medical assistance.

Advice to treating physician: If breathing becomes difficult, administered oxygen.

#### SECTION 5: Firefighting measures

Extinguishing media: All extinguishing media are appropriate. Carbon anhydride (CO<sub>2</sub>) is recommended; dry chemical product; pressurized water.

Special fire-fighting procedures: Active ingredient is not flammable. Final product may become Flammable in the presence of fire. Packaging is combustible. Does not ignite by itself, but can decompose in the presence of heat. In case of fire, avoid spreading powder material. Control runoff if water is used; build dam to contain water contaminated with product.

Personal protection equipment for fire fighting: Use adequate protective clothing and self-contained breathing equipment.

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#### SECTION 6: Accidental release measures

Individual precautions: No effect

Individual protection: None

Precaution for the protection of the environment : Do not flush to sewer

Cleaning methods: Use plenty of water

#### SECTION 7: Handling and Storage

Technical recommendations: The absorber, absorbs ethylene, moisture and inhibits bacteria. Prior to using the product, read carefully all instructions printed on the generator.

Precautions: DO NOT eat or drink while manipulating the product; change clothes at the end of the work day; keep area tidy and clear; DO NOT open generator; keep generator in well ventilated areas.

Specific recommendations for safe handling of product: Information not available.

Storage conditions: Store in a safe, cool and dry place with good ventilation at all times. Avoid moisture. Assess fuel charge in the case of packaged material.

Recommended and inappropriate packaging: Packaging recommended should be able to maintain product isolated from moisture.

#### SECTION 8: Exposure controls/personal protection

Measures to reduce exposure possibilities : Avoid exposure to moisture.

Technical measures : Dilution ventilation is a satisfactory health hazard control

Airborne exposure limits : No

Hygiene measures	: Wash hands before eating or drinking
Respiratory protection	: Not necessary
Hands protection	: Not required

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Zeolite powder coated with $KMNO_4$ (active ingredient)
color	: purple before use, dark brown when powder have been De-activated
Odour	: Odourless
pH	: Not applicable
Melting point	: Not applicable
Flash point	: Not applicable Self-ignition
temperature	: Not applicable
Explosive properties	: Product is non-explosive Fire or explosion
hazards	: Not applicable
Flame propagation speed	: Not determined
Density at 20°C	:Not applicable

### 9.2. Other information

No information.

## SECTION 10: Stability and reactivity

- 10.1. Stability : Stable as final product and active ingredient.
- 10.2. Conditions to be avoided : Avoid moisture and high temperature conditions while stored.
- 10.3. Incompatibilities (materials to be avoided) : Contact with acids and oxidizing agents.
- 10.4. Hazardous combustion products : Information not available
- 10.5. Hazardous polymerization : Not applicable

## SECTION 11: Toxicological Information

Evaluation:	Contains no Toxicological substances
Eye irritation:	None
Skin irritation:	None
Carcinogen:	None

## SECTION 12: Ecological Information

Mobility:	In the earth, one or several components are mobile, but do not contaminate underground water.
Persistence/ degradability:	Naturally degradable. Bioaccumulation: None.
Eco-toxicity:	Non toxic for mammals.
Water treatment:	Non toxic, within the limit of being soluble in water

### SECTION 13: Disposal Considerations

Precautions:	Refer to section 7 before handling product. Used products could have different properties or risks
Elimination of product:	Banal waste (DIB), not listed as hazardous waste (dump class II)
Packaging that may not be cleansed must be disposed of in the same manner as the product.	

### SECTION 14: Transport Information

- 14.1 UN Number ADR, ADN, IMDG, IATA** Not applicable (As final product).
- 14.2 UN proper shipping name ADR, ADN, IMDG, IATA** Not applicable (As final product).
- 14.3 Transport hazard class(es)**  
ADR, ADN, IMDG, IATA Class Not applicable (As final product).
- 14.4 Packing group ADR, IMDG, IATA** Not applicable (As final product).
- 14.5 Environmental hazards Marine pollutant:** Not applicable (As final product).
- 14.6 Special precautions for user** Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### SECTION 15: Standards in Force

International standards applicable	: Food and Agricultural Organization Regulations Hazard indications : X <sub>n</sub> (active ingredient)
Specific hazards	: R22 – R31 – R41 (active ingredient)
Precaution recommendations	: S26 – S39 – S46 (active ingredient)
Domestic standards applicable 594 (2001), NCh 2245 of 2003.	: NCh 382 of 98, NCh 2190 of 93, NCh 2120/8 of 98, DS No
Markings on label	: Precaution.

### SECTION 16: Other Information

All information, recommendations and suggestions herein in relation to our product are based on reliable testing and data; however, it is the responsibility of the user to determine that the product described herein is compatible with his/her needs from the point of view of toxicity and safety. Given the fact that the effective use of the product on the part of third parties is out of our control, we do not provide any explicit or implicit guarantee regarding the effects of said use; neither do we assume any responsibility regarding the use that third parties make of the product herein.

**[Disclaimer]**

*This MSDS has been prepared in accordance with REGULATION (EC) No 1907/2006, DIRECTIVE 67/548/EEC, DIRECTIVE 1999/45/EC, REGULATION (EC) No 1272/2008.*

*This MSDS has been prepared based on our best knowledge regarding the product and safety/hazard information which can be obtained at the time of the preparation, however, care should be made because contents may not be sufficient. In case new findings become available, descriptions in this MSDS can be updated as appropriate without prior notice. Please consider that precautions in this MSDS only cover normal handling conditions and additional safety measures should be taken for special situations which are suitable for your own usage or purposes.*