

Material Safety Datasheet

In Accordance to the Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 453/2010 with respect to SDSs)

SECTION 1 – Product Name: Master batch KEEP-IT-FRESH 3131

1.1. IDENTIFICATION OF THE SUBSTANCE

Common Name : Master batch KEEP-IT-FRESH 3131

1.2. Relevant identified uses of the substance or mixture and uses advised against

To use as a plastic additive for Shelf Life Extension of Fruits & Vegetables

1.3. Details of the supplier of the safety data sheet

Name of manufacture/supplier:- Hi Tech International
Address B31 Opp Power House
Jamalpur
Chandigarh Road,
Ludhiana 141010
INDIA

1.4. Emergency telephone number

Telephone number: +12147742171

SECTION 2 – HAZARDOUS IDENTIFICATION

2.1. Classification of the substance or mixture Classification (in accordance with EC No 1272/2008 or 1999/45/EEC or 67/548/EEC)

Classification (in accordance with 1999/45/EC)

None

2.2. Label elements (In accordance with EC No 1999/45/EC)

Pictogram



Signal Word: Danger
Hazard Statement: H302: Harmful if swallowed.

Precautionary Statements:

[Prevention] P260: Do not breathe dust/fume/gas/mist/vapours/Spray.
P280: Wear protective gloves/protective clothing/eye, protection/face protection.

[Emergency response] P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

[Disposal] P403+P233: Store in a well-ventilated place. Keep Container tightly closed.

2.3. Other hazards

The substance does not meet the PBT and/or vPvB criteria.

SECTION 3 – Composition/ information on ingredients

3.1. Substances

LDPE Blended with Zeolites & Anti Microbials

3.2. Mixture

Product identifier (Product name): KEEP-IT-FRESH Maserbatch

3.3. Information on ingredient(s)

Ingredients	Wt. %	
Ldpe	60 %	9002-88-4
Naturally Occuring Zeolites	20-40 %	1318-02-1

1) Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in later.

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case certain symptoms such as headache and/or nausea are observed, immediately get medical treatment.

IF ON SKIN: Remove/take off immediately all contaminated clothing. Wash out Contaminated skin area with plenty of water and soap. If skin Irritation or rash occurs, get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If skin irritation persists, get medical advice/attention.

IF INGESTED: Rinse mouth. Do NOT induce vomiting and immediately get medical attention.

Wash hands and contaminated work clothing thoroughly after handling. Wash contaminated clothing before reuse.

4.2. Most important symptoms and effects, both acute and delayed

Harmful if swallowed
Harmful if inhaled

4.3. Identification of any immediate medical attention and special treatment needed

Depending on the circumstances wear protective equipment for eyes and skin.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, chemical powder, foam fire-extinguisher or dry sand.

Unsuitable extinguishing media

Carbon dioxide is not suitable for paper-like materials.

5.2. Special hazards arising from the substance or mixture

Toxic and irritating vapours and/or gases may generate by combustion.

5.3. Advice for firefighters

Take action from windward.

Non-responsible personnel should escape from the fire site.

In case of fire occurs in surroundings, move containers to a safe area if possible.

Fire fighters should wear appropriate personal protective equipment, e.g. face protection and safety apron. Non-responsible personnel should escape from the fire site.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Remove ignition sources and provide sufficient ventilation to control exposure. In case of emergency, contact responsible personnel and consult an expert.

For emergency responders

Wear protective equipment (e.g., safety gloves and shoes, protective mask, protective glasses) and collect spilled product by suitable equipment.

6.2. Environmental precautions

Avoid releasing the product into the environment.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do it without risk.

In case of small amounts, wipe off spilled material with waste or wiping cloth and collect it in an adequate waste container.

If case of large amounts, prevent leakage and enclose by embankment. Do not eat or drink near handling and storage locations.

Prevent contaminants from flowing into drains, sewers, basements or closed areas.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

Extinguishing agents: CO₂, extinguishing powder, alcohol resistance foam or other fire fighting measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Containment and measures for safe handling

Take engineering measures described in "Section 8: Exposure controls/ personal protection" and wear personal protective equipment.

Avoid high-temperature environment. Wash hands after handling.
Do not eat, drink, or smoke when using this product.

Incompatible substances or mixture

See "Section 10: Stability and reactivity".

7.2. Conditions for safe storage, including any incompatibilities

Equip the site with necessary lighting, illumination, and ventilation equipment to store or handle hazardous materials.

Keep away from oxidant.

Keep the material away from sources of ignition such as heat, sparks, and open flames.

Avoid direct sunlight, and store the container in cool, well-ventilated place. Use water-proof container for storage.

7.3. Specific end use(s)

Shelf Life Extending Masterbatch

SECTION 8: Exposure controls/ personal protection

8.1. Control parameters

ACGIH TLV-TWA (2013); Not applicable
ACGIH TLV-STEL (2013); Not applicable
EU IOELV (2009); Not applicable

8.2. Exposure controls

Appropriate engineering controls

In case dusts and/ or vapours generates during mixing, processing and casting, use local ventilation to avoid exposure as appropriate.

Individual protection measures, such as personal protective equipment

Eye/ face protection:	Wear safety glasses as appropriate.
Skin protection:	Wear safety gloves and work clothing as appropriate.
Respiratory protection:	Wear protective mask (e.g. equipped with activated charcoal cartridge) and/or respiratory protection if necessary.

Environmental exposure controls

Avoid release to the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	White Pallets
Color:	White
Odour:	None
Odour threshold:	No information
pH:	None
Melting point/ freezing point:	110
Boiling point, initial boiling point and boiling range:	No information
Flashpoint:	No information
Evaporation rate:	No information
Flammability (solid, gas):	No information
Upper/lower explosive limits:	No information
Vapour pressure:	No information
Vapour density:	No information
Specific gravity:	0.4-0.6
Solubility:	None
n-octanol/water partition coefficient:	No information
Auto-ignition temperature:	No information
Decomposition temperature:	300C
Viscosity:	No information

9.2. Other information

No information.

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is considered to be a non-reactive material under normal handling conditions.

10.2. Chemical stability

Stable under ambient condition.

10.3. Possibility of hazardous reactions

No information.

10.4. Conditions to avoid

Avoid direct sunlight, and storage of the product in cool and well-ventilated place. Keep container tightly closed.

10.5. Incompatible materials

Oxidisers

10.6. Hazardous decomposition products

Carbon monoxide & carbon dioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity: None

Biological properties LD oral: N. E.

Sensitization: No sensitizing effect known.

Poison / hazard other than poison: N. A.

Effect on the skin: Irritant for the skin and mucous membranes.

Effect on the eye: Irritant effect possible.

SECTION 12: Ecological information

12.1. Toxicity

KEEP-IT-FRESH (Fish: Rainbow trout) 70 x 1C

12.2. Persistence and degradability No relevant information available.

12.3. Bioaccumulative potential No relevant information available.

12.4. Mobility in soil No relevant information available.

12.5. Results of PBT and vPvB The substance does not meet the PBT and vPvB criteria.

12.6. Other adverse effects No relevant information available.

SECTION 13: Disposal consideration

13.1. Waste treatment methods

Remaining product should be incinerated in small amounts or consign to a waste disposer who should have been certificated by the local governor.

When dispose of the product, follow related laws and local regulations.

Containers should be recycled after cleaning or dispose of in compliance with related laws and local regulations.

When dispose of containers, completely remove all remaining product

SECTION 14: Transport information

14.1. UN number Not applicable.

14.2. UN proper shipping name Not applicable.

- 14.3. Transport hazard class(es)** Not applicable.
- 14.4. Packing group** Not applicable.
- 14.5. Environmental hazards** Not applicable.
- 14.6. Special precautions for user**

Transport and storage according to general precaution and instructions mentioned above.

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code**
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture.

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

15.2. Chemical safety assessment

Not conducted

Section 16: Other information

16.1. Reference number

Masterbatch ROT NOT 3131

16.2. Update history

Date of issue: June, 4, 2015

Risk phrase(s) and hazard statement(s) of ingredients in section 3 but full texts do not appear elsewhere in this SDS.

- R8: Contact with combustible material may cause fire.
H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H332: Harmful if inhaled.

[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 situation which are suitable for your own usage or purposes.