

# SAFETY DATA SHEET: EBM.13

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Language: English

## I. Product Identification

1. Product name: EBM.13 (PLA/PBAT Compound)

With biodegradable resin of about 94% and inorganics of approximately 5%

### 2. Composition:

Composition	CAS No.	Contents
Poly ( Lactic acid) PLA	26100-51-6	> 69%
Polybutylene adipate terephthalate (PBAT)	60961-73-1	< 25%
Additives	-	> 6 %

3. Recommended use: for straw production

## II. Supplier Information

A recognised biodegradable plastic company in The Republique of Korea



### III. Hazard Identification

- Contact with materials: use of proper ventilation
- Important health vulnerability:  
Generation of dust should be avoided when handling materials. It might be harmful when breathing dust and dust-air mixtures may stimulate ignition or explosion. It is recommended to have a thorough wash after handling materials.

### IV. First Aid Measures

- Inhalation: Leave the site immediately if exposed directly to materials. Use ventilator or similar device to have artificial respiration as needed. Seek medical attention or health care.
- Skin contact: Remove immediately contaminated clothing, accessories, and shoes. Then rinse body with soap or neutral detergent with plenty of water until chemicals are completely removed (recommended time is 15 minutes or longer).
- Eye contact: Immediately wash eyes, occasionally splashing the upper and lower eyelids with plenty of saline water until the chemicals are completely removed. Seek medical attention or health care.
- Swallowing: if swallowing materials by accident which causes vomiting, keep head below your buttocks.

### V. Firefighting Measures

- Firefighting guidance: Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Extinguish media: carbon dioxide, water, halogens, sand, alcohol-type foam, all-purpose-type foam.
- Flash point: currently not available
- Flammable limits in air: not determined.
- Auto ignition temperature: 375°C
- Unusual fire and explosion hazards: Static ignition might result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of materials.
- Hazardous combustion products: Burning can produce carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide can act as asphyxiant if reach a concentration limit.

### VI. Accidental release measures

If materials are released or spilled, these steps need to be considered: shut off ignition sources; cover materials with sweeping compound; collect materials for disposal; follow governmental regulations to handle accidents.



## VII. Handling and storage

Ideal storage temperature: 25°C

Ideal transport temperature: 25°C

Viscosity: Solid

Storage/transport pressure: Atmospheric

Storage: Do not store near flame, sources of heat or sources of ignition. Protect material from direct sunlight and nature atmospheric.

### - PRECAUTIONS TO BE TAKEN IN HANDLING:

Electrically bond and ground all containers and equipments before transfer or use of materials

Protect materials from moisture and impurities.

Do not handle or empty materials in presence of flammable vapor. Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

### - PRECAUTIONS TO BE TAKEN IN STORING:

Store container in a well dry/cool place.

Keep away from any source of ignition.

## VIII. Exposure and Protection

### - INHALATION (ACGIH):

TLV: not established.

Electrically bond and ground all containers, personnel and equipment before use

### - VENTILATION:

Special, local ventilation is recommended in areas where containers are opened and their contents are discharged or in any other areas where dusting conditions may develop.

### - PERSONAL PROTECTIVE EQUIPMENT:

EYE: Safety glasses or monogoggles

OTHER: Eye bath, safety shower

GLOVES: Protective gloves

RESPIRATORY PROTECTION: Dust respirator if dusting conditions exist.

## IX. Physical and Chemical Properties

Physical state: Solid

Appearance: White pellet



Boiling point:	Not determined
Melting point:	> 155°C
Decomposition temp.:	> 250°C
Auto ignition temp.:	No
Odour:	No
Vapor pressure:	No
Explosion risk:	No
Solubility in water:	No

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## X. Stability and reactivity

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Reactivity:	Stable in ordinary temperature and normal pressure
Hazardous decomposition product:	No
Material to avoid:	No
Condition to avoid:	Temperature over 200°C
Stability:	Dissolves by hydrolysis with a strong acid or strong alkaline aqueous solution.
Hazardous polymerization:	Does not occur

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## XI. Toxicological Information

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Chronic toxicity:	No data
Carcinogenicity:	No data
Eye contact:	Dust may cause eye irritation. Additional information is available on special request.
Skin contact:	No information
Inhalation:	No information

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## XII. Ecological information

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Biodegradability:	Biodegradable in soil, water, activated sludge or compost in the presence of microorganisms
Ecotoxicity:	OECD Guidelines for the Testing of Chemicals 202(1984) EC50 (Median Effective Concentration): more than 20%

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### XIII. Transport information

Road transport:	USDOT. Not classified as a dangerous good under transport regulations
Sea transport:	IMDG. Not classified as a dangerous good under transport regulations
Air transport:	IATA/ICAO. Not classified as a dangerous good under transport regulations

### XIV. Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture: If other regulatory information applies that is not already provided elsewhere in this safety, data sheet, then it is described in this subsection.
- Chemical Safety Assessment: A safety data sheet for this product is legally not required and is provided by us just as a courtesy to our customers. Product is not classified as hazardous.

### XV. Other information

**RECOMMENDED USES AND RESTRICTIONS: For industry use, for straw production.**

When processing BIOGENPOL resin after more than 1 year of storage, re-dry the materials before processing. The shelf life of the products made by BIOGENPOL should be less than 6 months for thin parts (e.g. films and filaments), and less than 1 year for thick parts (e.g. sheet and injection).

Please contact us for products more than 1 year of shelf life.

*Numerical values such as content and physical and chemical properties are not guaranteed values. The risk and hazard assessment were made based on the data, information available at this time. Since not all the data are covered, please handle the materials carefully.*



## Our services

- **Provide in-depth consultation** on how to process or use specific materials and products
- **Design and deliver products** to your specific requirements

## Need assistance? Contact us at:



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