

SAFETY DATA SHEET: EBM.12

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Language: English

I. Product Identification

1. Product name: EBM.12 (PLA 85%)

2. Composition: Substance

Composition	CAS No.	Chemical Formulation	Content (%)
Polylactic Acid Resin (PLA)	9051-89-2	H[(- OCH(CH ₃))CO-] nOH	> 85
Impact Modifier	confidential	confidential	< 15

Poisonous and Deleterious Substances Control Law: Not applicable

II. Supplier Information

A recognised bioplastic manufacturing factory in the Republic of Korea



III. Hazards identification

- Color: White pellets
- Physical state: Solid
- Inhalation: Short-term harmful health effects are not expected from vapor
- Skin absorption: No evidence of harmful effects from available information.
- Skin contact: No evidence of harmful effects from available information.
- Eye contact: No evidence of harmful effects from available information

IV. First Aid Measures

- Inhalation: If exposed to vapour or gas, move to fresh atmosphere. Consult a physician if necessary.
- Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Rinse thoroughly the inner side of the eye lid. Consult a physician if necessary.
- Skin contact: In case of contact with melted material, fully cool down by pouring plenty of water over the clothing. Then take off clothing, cover with clean gauze. Get medical attention immediately if skin colour changes, irritating pain occurs or feeling unwell.
- Ingestion: If swallowed by accident, keep at rest and get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent severe nausea.
- Protection of the first aid staff: Wear appropriate protective equipments (protective glasses, protective mask, gloves, etc.). Install ventilation.

V. Firefighting Measures

- Suitable extinguisher media: All types of fire extinguisher
- Specific firefighting method, protection for fire-fighter:
 - Firefighters respond to fire in vicinity
 - Wear appropriate protective equipment (heat-proof clothing, etc.).
 - Remove flammable substances from surroundings immediately.
 - Fight fire from windward
 - Restrict the area around the fire to avoid entrée of unauthorized personnel and prevent secondary disaster.
- 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 in sufficient concentrations can act as asphyxiant.

VI. Accidental Release Measures

Procedure when material is released or spilled: shut off ignition sources. Cover with sweeping compound. Collect for disposal. Follow government regulations.

VII. Handling and storage

- PRECAUTIONS TO BE TAKEN IN HANDLING:

- Electrically bond and ground all containers & equipment before transfer or use of materials.
- Protect from moisture and impurities.
- Do not handle or empty 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 (Filament)
Melting point:	170 ~ 190°C
Specific gravity (relative density):	1.24~1.25 g/cm ³
Solubility:	Insoluble in water and other volatile solvent.



X. Stability and reactivity

Reactivity:	No reactivity during general storage and handling. Dissolves by hydrolysis with a strong acid or strong alkaline aqueous solution.
Stability:	Stable in ordinary temperature and normal pressure
Flammability:	No
Oxidizing property:	Not applicable
Conditions to avoid:	Avoid heat, flame, sparks, and other sources of ignition. Avoid contact with banned substances.
Polymerization:	Does not happen

XI. Toxicological Information

Acute toxicity (oral):	Rat LD50 > 5,000 mg/kg
Chronic toxicity:	No data available
Carcinogenicity:	No data available
Eye contact:	Dust can damage eyes.
Skin contact:	No irritation during normal handling.
Inhalation:	Inhalation of high concentration of dust may irritate trachea.

XII. Ecological information

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%

XIII. Disposal Information

WASTE DISPOSAL METHOD

Landfilling and disposing waste where permitted under appropriation and in accordance with regional, national or local environmental regulations.

Empty containers should be recycled or disposed of through an approved waste management facility.

XIV. Transport Information

Follow the instructions in "HANDLING AND STORAGE".

Road transport:	Follow all regulations in the present country.
International transport:	UN classification: Not applicable to the dangerous goods under UN classification.





XV. 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.

XVI. Other Information

RECOMMENDED USES AND RESTRICTIONS: For industry use only.

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

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