

SAFETY DATA SHEET: EBM.02

By Emamou



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Language: English

I. Product Identification

1. **Product name:** EBM.02 (PBAT 100% & Additives)

2. **Composition:**

Composition	Contents
Aromatic – Aliphatic copolyester (PBAT)/additives	100%
Total	100%

3. **Recommended use:** for film extrusion

II. Supplier Information

- Company name: ANKOR Bioplastics
- Address: 216, Munmakgongdan-gil, Munmak-eup, Wonju-si, Gangwon-do, Republic of Korea
- TEL/ FAX: +82 33 731 5845/ +82 33 731 5846



III. Hazard Identification

EBM.02 is not a hazardous substance or mixture according to Notification of Ministry of Industry, Republic of Korea.

Subject: Chemical Hazard Classification and Chemical Hazard Communication.B.E.2555

- Classification of the substance: No requirement for classification according to GHS criteria
- Label element: this substance does not require a hazard warning label in accordance with GHS criteria.
- Other hazards: none.

IV. First Aid Measures

Description of first aid measures:

- Inhalation: In case of inhaling material vapour, leave the site to obtain fresh air. If unable to breathe or breathe irregular, obtain artificial respiration. Obtain medical attention by physician if symptoms persist.
- Skin contact: Remove pellets and dusts from skin, clothes, shoes, etc. If molten material comes into contact with skin, pour plenty of water on the clothes in order to cool the affected skin sufficiently. Take off the clothes and cover the affected skin with clean gauze. Consult a specialist as soon as possible.
- Eye contact: Rinse the eyes with plenty of clean water for at least 15 minutes with fingers to let the water reach all the portions of the eyes if easy to do so. Then, consult an ophthalmologist.
- Ingestion: if swallowing materials by accident and the individual is conscious, rinse mouth with water.

Most important symptoms and effects, both acute and delayed:

- Molten polymer may cause burn. Dust contact with eyes can lead to irritation.

Indication of any immediate medical attention and special treatment needed:

- Treatment should be considered if there are symptoms of health effect.

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

Personal precautions, protective equipment and emergency procedures

If material remains on the floor or ground, it may cause the surface slippery. Remove pellets frequently.

Avoid generating dust. When working, wear appropriate protective equipment and avoid inhaling dust.

Eliminate all sources of ignition near the area of material leakage.

Use proper personal protection equipment as indicated in the Exposure and Protection section.

Environmental precautions

To avoid environment effects, prevent spilled material from entering rivers or other aquatic environments.

Methods for containment and cleaning up

Sweep up dispersed materials and place them in an empty container that should be tightly closed. If possible, first moisten dispersed the materials to prevent dust from rising up in the atmosphere.

VII. Handling and storage

- 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 STORAGE:

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:	100~130°C (variable according to material composition)
Density:	1.2~1.3g/ml
Vapor:	Not applicable
Water/oil dispersion coefficient:	Not applicable
Solubility:	Soluble in Halogen chemical like Chloroform.

X. Stability and reactivity

Reactivity:	Stable in ordinary temperature and normal pressure
Hazardous polymerization:	Do not polymerize
Inhibitors/ stabilizer:	Not applicable

XI. Toxicological Information

Information on the likely routes of exposure:

Inhalation:	May affect respiratory system in case materials are in powder state.
Skin contact:	May cause skin irritation. Molten polymer may cause thermal burns.
Eye contact:	Dust or powder contact with the eyes can lead to mechanical irritation.
Ingestion:	Nausea, vomiting, and diarrhea may occur.

Delayed and immediate effects and also chronic effects from short and long term exposure:



Immediate effect: May cause skin irritation. Mechanical eye irritation is possible.
After inhalation of process fumes and vapor may causes in the nose and throat, cough and wheezing are common.

Chronic effects: No data available

Numerical measures of toxicity

Acute toxicity: LD50 oral rat > 500 0 mg/kg

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 consideration

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

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

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

To the best of our knowledge, the information contained herein is corrected and reliable as of the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, and disposal. The information relates only to the specific material designated and not valid for such material used in combination with any other material or in any process. It is the customer's responsibility to inspect and test our products in order to assure the suitability of the materials for the customer's particular purpose. The supplier Ankor Bioplastics makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.

RECOMMENDED USES AND RESTRICTIONS: For industry use only.

When processing this resin after more than 1 year of storage, re-dry the materials before processing. The shelf life of the products 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.



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