

SAFETY DATA SHEET: EBM.06

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Language: English

I. Product Identification

According to directive 91/155/EEC

IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/
UNDERTAKING:

- 1.1 Product name: **EBM.06**
- 1.2 Product description: Compostable & biodegradable polymer resin
- 1.3 Product use: Resin for thermoplastic processing
- 1.4 Company identification: a recognised biodegradable plastic factory in Vietnam

II. HAZARDS IDENTIFICATION:

This product is not classed as dangerous according to EEC directives 67/548/ EEC and 99/45/EC, including amendments 2001/60/EC and 2006/8/EC. The pelletised product may present a slip hazards if split.

EBM.06 has been developed for injection moulding and sheet extrusion/thermoforming processes. When heated to temperature some fuming may be observed coming from the





melt. In the absence of good extraction/ ventilation, the use of a face mask and goggles is recommended. The fumes arise from a non-hazardous, high boiling component.

In sheet extrusion rather high levels of fuming are likely. Especially in this case it is important to have good extraction facilities available, are operators should consider wearing masks and goggles.

III. COMPOSITION/ INFORMATION ON INGREDIENTS:

- 3.1 Chemical characterization: 50% PBAT + 30% PLA + 20% starch powder
- 3.2 CAS number: Not applicable (proprietary blend of non-hazardous chemicals)
- 3.3 EINECS number: All ingredients are listed on the EINECS database
- 3.4 EG identification number: Not defined
- 3.5 Dangerous components: None

IV. FIRST AID MEASURES

- 4.1 General Information: If irritation or other symptoms occur, consult a physician and present this safety data sheet
- 4.2 Inhalation: Not applicable
- 4.3 Skin: In case of contact with molten product immediately cool the skin with cold water and consult a physician for treatment of any burn.
- 4.4 Eyes: Treat as any foreign particulate matter, rinse open eyes thoroughly with clean water
- 4.5 Ingestion: No information available; no toxic effects are known; if irritation or other symptoms occur see a doctor.

V. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media: Water, dry chemicals, air foam
- 5.2 non-suitable extinguishing media: Carbon dioxide is generally not recommended as a lack of cooling capacity may result in reignition.
- 5.3 Special exposure hazards: During combustion, carbon monoxide/ carbon substance, its combustion products dioxide gas is created; depending on the resulting gases conditions, substances such as tetrahydrofuran, organic acids, aldehydes, alcohol etc. as well as irritant vapours may also develop.
- 5.4 Special protective equipment: During large scale fires use breathing apparatus.



VI. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions: In case of dust formation use breathing apparatus. Split granule may make floors slippery – exercise care.
- 6.2 Environmental precautions, disposal Sweep/ vacuum pellets into a suitable container for disposal, avoiding generating dust. Observe local authority regulations

VII. HANDLING AND STORAGE

- 7.1 Handling: General protection and hygiene rules apply, keep away from direct flame. Minimise dust formation.
- 7.2 Storage: Store product dry and sealed, indoors at room temperature. Avoid extremes of temperature and humidity, and sources of ignition including static charge. If the product is exposed to moisture dry thoroughly before processing.
Storage class: Not applicable

VIII. EXPOSURE CONTROLS

- 8.1 Exposure limit values : None
- 8.2 Exposure controls:
 - 8.2.1 Occupational exposure controls: Not necessary during appropriate use
 - 8.2.2 Environmental exposure controls: Not necessary during appropriate use
- 8.3 Additional advice for engineering controls: Avoid electrostatic charge

IX. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 General information: Pigmented or unpigmented solid material (usually granules/ pellets)
- 9.2 Important safety information:
 - Change of state: Softening point >150°C
 - Flash point: Not applicable
 - Flammability (solid, gaseous): -
 - Ignition point: >200°C
 - Self-ignition: >200°C





Explosivity: Not applicable (but avoid dust generation)

Explosive limit: Not applicable

9.3 Other information:

Vapour pressure at 20°C: Not applicable

Density at 20°C: 1.30 g/cm³

Bulk density: 750 kg/m³

Solubility in water: Insoluble

pH: Not applicable

Coefficient of dispersion: -

Viscosity: Not applicable at room temperature

X. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Avoid heating >200°C

10.2 Materials to avoid: Strong acids and oxidising agents

10.3 Hazardous decomposition products: see 5.3 (combustion overheating)

XI. TOXICOLOGICAL INFORMATION

No hazards known under appropriate usage conditions

XII. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Product is completely biodegradable

12.2 Mobility: -

12.3 Persistence, degradability: Product is completely biodegradable

12.4 Bio-accumulative potential: -

12.5 Other adverse effects: -

XIII. DISPOSAL CONSIDERATIONS

Recommendation: Composting*, household waste, incineration

*Product is completely biodegradable. Its compostability depends on the final product form and thickness. Local conditions or bye-laws should be observed in disposal.



XIV. TRANSPORT INFORMATION

Not classified as a dangerous product according to transport regulations.

XV. REGULATORY INFORMATION

This product is not hazardous according to 67/548/EEC and 99/45/EC, and subsequent and amendments.

The substances used in this product comply with the inventory listing of the US Toxic Substances Control Act (TSCA), and are registered according to the European REACH regulations. No substances of very high concern are included.

XVI. OTHER INFORMATION

Date of issue: January 02, 2019

Revised on: N/A

Previous issues: N/A

Emergency contact number: (+84) 902634479

Note: *The above information is provided in good faith and to the best of our knowledge is accurate at the date of publication. However, all customers should carry out appropriate risk assessments focused on their own processes, to ensure that this product is safety handled, and meets all relevant bye-laws and regulations, and GPS Plastic CO., LTD cannot accept any liability in this regard.*



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