

# TB-10 Bio-compostable compound

## Safety Data Sheet

Revision date: 17/01/2021  
Version: 1.0



### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### **1.1. Product identifier**

Product name : BIONEX TB-10 Bio-compostable compound

Product code : TB-10

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

##### **1.2.1. Relevant identified uses**

Use of the substance/mixture : Manufacture of plastics products, including compounding and conversion.

##### **1.2.2. Uses advised against**

No additional information available.

#### **1.3. Details of the supplier of the safety data sheet**

Unique Polymer Co., Ltd

282 Moo 2 Pharaek Sa Mai , Mueang Samut Prakan , Samut Prakan 10280

Tel.(+66)02-116-3138

Website: Unique-polymer.com

#### **1.4. Emergency telephone number**

Not applicable

### **SECTION 2: Hazards identification**

#### **2.1. Classification of the substance or mixture**

No hazardous effects known.

#### **2.2. Label elements**

there is no labelling obligation.

#### **2.3. Other hazards**

No additional information available.

### **SECTION 3: Composition/information on ingredients**

#### **3.1. Substances**

PBAT, PLA, natural mineral powders and additives.

#### **3.2. Mixtures**

Not applicable.

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### **SECTION 4: First aid measures**

#### **4.1. Description of first aid measures**

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after inhalation : Not expected to present a significant inhalation hazard under normal use. Remove victim to fresh air and keep warm and at rest. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Following contact with the melted product, quickly cool affected skin area with water.
- First-aid measures after eye contact : Not expected to cause irritation under normal use. If eye irritation persists, consult a specialist.
- First-aid measures after ingestion : Avoid ingestion of product. Suggest to induce vomiting and no special attention needed.

#### **4.2. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray. Dry extinguishing powder. Foam. Carbon dioxide (CO<sub>2</sub>).

#### **5.2. Special hazards arising from the substance or mixture**

Fire hazard : Thermal decomposition can lead to the escape of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Gas/ vapors, toxic.

#### **5.3. Advice for firefighters**

Use full protective clothing for chemicals and self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **6.1.1. For non-emergency personnel**

Evacuate all unnecessary personnel to a safe and ventilated location.

##### **6.1.2. For emergency responders**

Avoid ignition sources. Avoid contact with skin, eyes and clothing by working with hot material.

#### **6.2. Environmental precautions**

Do not allow uncontrolled leakage of product into the environment.

#### **6.3. Methods and material for containment and cleaning up**

Remove mechanically, placing in appropriate containers for disposal. Handle contaminated packaging in the same way as the product itself.

#### **6.4. Reference to other sections**

No additional information available.

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Precautions for safe handling : Avoid generation of dust. Provide adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Storage area : Keep container tightly closed and dry.

Special rules on packaging : Keep/Store only in original container.

#### **7.3. Specific end use(s)**

No additional information available.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

Not applicable.

#### **8.2. Exposure controls**

**Appropriate engineering controls** : If suction of the immediate vicinity is impossible or insufficient, the entire working place must be sufficiently ventilated using appropriate machines.

**Hand protection** : Wear suitable gloves.

**Eye protection** : Wear eye/face protection.

**Skin and body protection** : Only wear fitting, comfortable and clean protective clothing.

**Respiratory protection** : In case of inadequate ventilation wear respiratory protection.

### **SECTION 9: Physical and chemical properties**

#### **9.1. Information on basic physical and chemical properties**

|   |                        |
|---|------------------------|
| Physical state                              | : Solid                |
| Appearance                                  | : Granules             |
| Colour                                      | : Creamy white         |
| Odour                                       | : Slightly sweet smell |
| Odour threshold                             | : Not applicable       |
| pH  | : Not applicable       |
| Relative evaporation rate (butyl acetate=1) | : Not applicable       |
| Melting point                               | : No data available    |
| Freezing point                              | : No data available    |

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|                                  |                             |
|----------------------------------|-----------------------------|
| Boiling point                    | : Decomposes before boiling |
| Flash point                      | : No data available         |
| Self ignition temperature        | : No data available         |
| Decomposition temperature        | : No data available         |
| Flammability (solid, gas)        | : No data available         |
| Vapour pressure                  | : Not applicable            |
| Relative vapour density at 20 °C | : Not applicable            |
| Relative density                 | : No data available         |
| Relative gas density             | : not applicable            |
| Solubility                       | : Water: insoluble          |
| Log Pow                          | : Not applicable            |
| Viscosity, kinematic             | : Not applicable            |
| Viscosity, dynamic               | : Not applicable            |
| Explosive properties             | : Not applicable.           |
| Oxidizing properties             | : Not applicable.           |
| Explosive limits                 | : No data available         |

### 9.2. Other information

|                         |                  |
|-------------------------|------------------|
| Minimum ignition energy | : Not applicable |
| SADT                    | : Not applicable |

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

None known.

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### 10.6. Hazardous decomposition products

In case of fire: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

|  |                    |
|--|--------------------|
| Acute toxicity (oral)                              | : Not classified   |
| Acute toxicity (dermal)                            | : Not classified   |
| Acute toxicity (inhalation)                        | : Not classified   |
| Skin corrosion/irritation                          | : Not classified   |
|  | pH: not applicable |
| Serious eye damage/irritation                      | : Not classified   |
|  | pH: not applicable |
| Respiratory or skin sensitization                  | : Not classified   |
| Germ cell mutagenicity                             | : Not classified   |
| Carcinogenicity                                    | : Not classified   |
| Reproductive toxicity                              | : Not classified   |
| Specific target organ toxicity (single exposure)   | : Not classified   |
| Specific target organ toxicity (repeated exposure) | : Not classified   |
| Aspiration hazard                                  | : Not classified   |

## **SECTION 12: Disposal considerations**

### 12.1. Waste treatment methods

|                                |  |
|--------------------------------|--|
| Regional legislation (waste)   | : Comply with local regulations for disposal.  |
| Waste disposal recommendations | : Do not empty into drains; dispose of this material and its container in a safe way. Handle contaminated packaging in the same way as the product itself. |

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### **SECTION 13: Transport information**

In accordance with ADR / RID / IMDG / IATA

#### **13.1. UN number**

UN-No. : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

UN-No. (ADN) : Not applicable

UN-No. (RID) : Not applicable

#### **13.2. UN proper shipping name**

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

#### **13.3. Transport hazard class(es)**

Not applicable.

#### **13.4. Packing group**

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

#### **13.5. Environmental hazards**

Not applicable.

#### **13.6. Special precautions for user**

- Overland transport

No data available.

- Transport by sea

No data available.

- Air transport

No data available.

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- Inland waterway transport

No data available

- Rail transport

No data available.

### 13.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

## **SECTION 14: Regulatory information**

### 14.1. Chemical safety assessment

No additional information available.

## **SECTION 15: Other information**

Abbreviations and acronyms:

|              |  |
|--------------|--|
| REACH        | Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EC) No 1907/2006  |
| SVHC         | Substance of very high concern   |
| CLP          | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  |
| ADR          | European Agreement concerning the International Carriage of Dangerous Goods by Road  |
| IMDG         | International Maritime Dangerous Goods   |
| IATA         | International Air Transport Association  |
| ADN          | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  |
| RID          | Regulations concerning the International Carriage of Dangerous Goods by Rail   |
| MARPOL 73/78 | International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("MARPOL" is short for marine pollution and 73/78 short for the years 1973 and 1978.) |
| IBC          | The International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  |
| OSHA         | Occupational Safety & Health Administration  |
| TWA          | Time Weighted Average  |
| STEL         | Occupational Exposure Limits - Short Term Exposure Limits (STELs)  |
| ACGIH        | American Conference of Government Industrial Hygienists  |
| TLV          | Threshold Limit Value  |
| IARC         | International Agency for Research on Cancer  |

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Full text of H- and EUH-statements:

Aquatic Acute 1    Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1    Hazardous to the aquatic environment — Chronic Hazard, Category 1

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