

# Material Safety Data Sheet of Poly(1,4-butylene succinate)

## 1. Identification of the substance and of the company:

Identification on the label/Trade name: **Poly(1,4-butylene succinate)** (PBS)

CAS No: 25777-14-4

Supplier(Manufacturer): Gree Industry CO.,LTD.

Address: Chemical Zone,Gaoxin District 255000Zibo City,Shandong China

Telephone: +86-531-88755607

## 2. Mark

Biodegradable resin

## 3. physical performance:

**Appearance:** Opalescent particle

**Odour:** Slight

**Odour threshold:** Undetected

**pH:** N/D

**Density:** 1.2-1.3 g/cm<sup>3</sup>(20°C)

**Melting point:** 110-120 °C

**Boiling point:** N/D

**Molecular weight:** N/D

**Flash point:** N/D

**Water solubility:** Insolubility

**Good solvent:** chloroform、 tetrahydrofuran and so on

## 4. Fire-Fighting measures

**Extinguishing media:** Use extinguishing agents appropriate for surrounding fire.

**Special fire fighting methods and special protective actions for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special hazards arising from the substance or mixture:** Formation of toxic and corrosive combustion gases possible.

## 5. First aid measures

**In case of inhalation:** Remove the casualty to fresh air and keep him/her calm- in the event of symptoms get medical treatment

**In case of skin contact:•** Remove contaminated clothes, wash affected skin with cold water , DO NOT use any solvents; Get medical aid if irritation develops and persists.

**In case of eyes contact:•** Rinse immediately with plenty of water for at least 10 minutes; Open eyelids forcibly; Consult physician.

**In case of ingestion:•** DO NOT induce vomiting. Rinse mouth and drink 2-4 cups of milk or water; never give anything by mouth to an unconscious person. Get medical aid.

## 6. Stability and reactivity

**Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Suggested condition:** Avoid storage in high temperature, open flame, damp and unsuitable environment.

**Incompatible materials:** Strong acids , strong base and strong oxidizing agents.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide.

**Conditions to avoid:** Form explosive dust mixture, dust explosion risk.

## 7. Accidental release measures

Use cleaning tools to clean and bag for general chemical waste disposal.

## 8. Hazards Identification

**Emergency description:** Dust may cause body allergies, avoid dust formation and flying out.

**Potential health effects:**

**Skin:** Cause skin irritation possible

**Eyes:** Cause eyes irritation possible

**Ingestion:** Ingestion hazard

## 9. Handling and storage

**Handling:** Personal hygiene and good trade practices should be observed to minimize dust.

**Storage:** The resin is degraded slightly when left exposed for a long time. The original package needs to be packed in aluminum-plastic and sealed by vacuum. Avoid excessive temperature, soil

contact and humidity.

## **10. Exposure Controls/Personal Protection**

**Occupational exposure limits:** General precautions should be followed when processing and handling.

**Appropriate engineering controls:** Maintain good ventilation, while maintaining good ventilation in the melt for a long time, such as in the leakage area, mold area, mesh change area, etc.

**Body protection:** Wear appropriate protective clothing, protective gloves, safety glasses and chemical goggles.

**Respiratory protection:** Respiratory protection not necessary during normal operations.

## **11. Disposal considerations**

No special requirements, comply with national, provincial and local environmental regulations.

## **12. Other information**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.