

# Material Safety Data Sheet

## 1. Company Information

**Manufacturer:** Shenzhen Greennature Biodegradable Technology Co., LTD

**Address:** Industrial 5-5, Jiangbian District, Songgang, Shenzhen China 518000

**TEL:** +86-(0)755-33978154

**FAX:** +86-(0)755- 33978153

## 2. Identification

Polymer Granules Greennature bioresin GN600F

## 3. Composition

Chemical characteristics :	Biodegradable polymer-blend based on polylactic acid(PLA) and Poly(Butylene Adipate-Co-Terephthalate)
Cas No :	PLA : 26023-30-3
Cas No:	PBAT: 55231-08-8
Additional information :	no harmful ingredients

## 4. Physical Data

**Appearance:** Granules

**Odor:** almost odourless

**Density:** 1.28 g/cm<sup>3</sup> (25°C)

**Melting range:** 120—150 °C

**Boiling Point:** N/D

**Flash Point:** N/D

**Solubility in Water:** Negligible

## 5. Fire Fighting Measures

**Extinguishing Media:** Water spray, Carbon dioxide, Dry chemical powder, Appropriate foam.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Explosion Hazards:** Negligible

## 6. First Aid Measures

**Respirator Protection:** No Special Requirement

**Skin Protection:** Wash off with soap and water. After contact with hot polymer, cool skin rapidly with cold water. Call a physician.

**Eye Protection:** Contact with eyes may cause physical irritation. Flush eyes with water. Call a physician.

**Ingestion:** Rinse mouth with water. Do not induce vomiting without medical advice. Call a physician.

## **7. Stability and Reactivity**

**Chemical Stability:** Stable under recommended storage conditions.

**Adverse Conditions:** Avoid excessive heat, flames, ignition sources, and incompatibles.

**Incompatibilities:** Strong oxidizing agents, strong acids

**Hazardous Polymerization:** None will occur.

**Hazardous Combustion or Decomposition Products:** Carbon Dioxide, Carbon Monoxide

**Conditions to Avoid:** In use may form explosive dust-air mixture Danger of dust explosion.

Thermal decomposition >240°C

## **8. Spill or Leak Procedures**

Wear respirator, chemical safety goggle, rubber boots and heavy rubber gloves.

Sweep up, place in bag and hold for waste disposal.

## **9. Hazards Identification**

**Emergency Overview:** May cause physical irritation. Avoid dust formation and spills.

### **Potential Health Effects**

**Skin:** May cause skin irritation.

**Eyes:** Contact with eyes may cause physical irritation.

**Ingestion:** May be harmful if swallowed.

## **10. Handling and Storage**

**Handling:** Good industrial practices in housekeeping and personal hygiene should be followed. Minimize dust.

**Storage:** Good storage stability, but extremes of temperature, soil and humidity should be avoided. The maximum recommended shelf life is 2 years. Resin should be stored in original shipping package. Keep the resin dry and sealed to prevent moisture. Temperatures during transportation and storage should not exceed 60 °C.

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

**Exposure Limits:** None have been established.

**Engineering Controls:** Provide good general ventilation. Also, provide adequate local ventilation where the hot polymer may reside for long periods, such as in leak areas, above the nozzle or die, in screen changers, in vent ports, etc.

**Skin Protection:** Hot polymer can cause thermal burns. Wear impervious clothing. Wear insulated gloves when near molten polymer, if needed.

**Respiratory Protection:** May be harmful if inhaled.

## **12. Disposal Considerations**

**Product:** Generation of waste should be minimized, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

**Uncleaned packaging:** Packaging material has to be emptied completely and disposed in accordance with the regulations. Packaging can be recycled if not contaminated.



### **13. Other Information**

This information is believed to be correct, however, Greennature Biodegradable Technology Co., LTD. Makes no representations as to its comprehensiveness or accuracy. Individuals receiving this information must use independent judgment to determine its appropriateness for a particular purpose. Greennature Biodegradable Technology Co., LTD .shall not be held liable for any damage resulting from handling or from contact with the above product.