

# Material Safety Data Sheet

## **1. Company Information**

**Manufacturer:** XinJiang Blue Ridge TunHe Polyester Co., LTD

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## **2. Identification**

Polymer Granules TUNHE bioresin TH803S

## **3. Composition**

Poly(1,4-butylene succinate)    CAS-143606-53-5

## **4. Physical Data**

**Appearance:** off-white Granules

**Odor:** Mild

**Odor Threshold:** Not detectable

**Density:** 1.20-1.28 g/cm<sup>3</sup> (25℃)

**Melting Point:** 110-116 °C

**Molecular Weight:** Approx. >100,000 (BY GPC)

**Boiling Point:** N/D

**Flash Point:** N/D

**Solubility in Water:** Negligible

**Solubility in Solvents:** Chloroform, Methylene Chloride, N-Methyl Pyrrolidone.

## **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, moisture, and incompatibles.

**Incompatibilities:** Strong acids, strong alkali, and strong oxidizing agents.

**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.

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

Wear respirator, chemical safety goggles, 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 45°C.

## **11. Exposure Controls and 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 and insulated gloves when near molten polymer, if needed.

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

## **12. Disposal Considerations**

No special requirements. Observe all federal, state and local environmental regulations.

Non-hazardous, biobased, and biodegradable, TUNHE bioresin is not designed to biodegrade in conventional landfills and is not part of the conventional plastics recycling stream.

## **13. Other Information**

This information is believed to be correct, however, Blue Ridge TunHe Polyester 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



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particular purpose. Blue Ridge TunHe Polyester Co., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product.