

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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Poly(Butylene Adipate-Co-Terephthalate) (PBAT)

CAS No: 55231-08-8

Molecular Weight: 430.45

Molecular Formula: C₂₀H₃₀O₁₀

1. Company Information

Company Magerial Science

Address BLD.3, #16888 East Taihu Rd., Suzhou, Jiangsu Province, 215200 China

Tel +86-512-58695855

2. Identification

Polymer Granules TH801T

3. Composition

Poly(Butylene Adipate-Co-Terephthalate)

4. Physical Data

Appearance: off-white Granules

Odor: Mild

Odor Threshold: Not detectable

Density: 1.20-1.28 g/cm³ (25°C)

Melting Point: 110-120 °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, Magerial Science 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. Magerial Science shall not be liable for any damages resulting from handling or from contact with the above product.
