



Tiertime Corporation

Safety Data Sheet for Tiertime PETG

| | |
|--|-----------------------------------|
| 1. Identification of the substance/ Information of supplier | |
| Product name | Tiertime PETG Filament |
| Chemical name | PolyEthylene Terephthalate Glycol |

| | |
|----------------------|---|
| Supplier name | Beijing Tiertime Technology Co., Ltd. |
| Address | No.2 South First Street Yanqi Economic Development Area Huairou District, Beijing 101407 P. R. China |
| Telephone | +86 10-69667183 |
| Fax | +86 10-51662221-805 |
| E-mail | overseas@tiertime.com |

| | |
|--|--|
| 2. Composition / Information on Ingredients | |
| A polycondensation product of three monomers: terephthalic acid (PTA), ethylene glycol (EG), and 1,4-cyclohexanedimethanol (CHDM). | |
| This product does not contain any hazardous ingredients. All additives are physically bound (encapsulated) in the compound. This product is not expected to create any hazard when it is used, handled, and processed. | |

| | |
|---|----------------------------------|
| 3. Hazards identification | |
| This product is not considered hazardous at ambient conditions and there are no known or expected health effects. Processing may generate dust, fumes and vapors sufficient to cause eye, skin and upper respiratory tract irritation if ventilation is inadequate. Molten polymer may cause thermal burns to skin and serious burns to eyes. | |
| Chronic Health effects | Not applicable. |
| Carcinogenic Status | Not listed or regulated by IARC. |
| Hazard Statement | Not applicable. |



Tiertime Corporation

| 4. First aid measures | |
|-----------------------|--|
| Inhalation | If processing vapors or decomposition products are inhaled, move person to fresh air. If irritation develops or persists, obtain medical attention. |
| Eye contact | Flush eyes with water as a precaution. |
| Skin contact | Wash the affected area thoroughly with plenty of water and soap. If molten polymer contacts the skin, cool the skin rapidly with water or ice. See a physician for removal of any adhering material and for treatment of the burn. |
| Ingestion | Never give anything by mouth to an unconscious person. Rinse mouth with water. |
| Notes to physician | Treat symptomatically. |

| 5. Firefighting measures | |
|----------------------------|--|
| Combustion products | Under fire conditions, polymer decomposes generating smoke and unidentified toxic and irritating compounds. In case of fire, the following can be released: Carbon oxides, Sulphur oxides. |
| Extinguish media | Use water spray, alcohol-resistant foam. |
| Large fire | Use water spray, water fog or regular foam. Do not use straight streams. |
| Fire fighting instructions | Fire fighters should wear positive pressure self-contained breathing apparatus and should be equipped with protective clothing. Keep people away and isolate fire area. |

| 6. Accidental release measures | |
|--|---|
| Personal precautions | Use personal protective equipment. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard. |
| Environmental Precautions | Do not let large amount of product enter drains. |
| Methods and material for Containment and Cleaning up | In case of spill sweep up material and place in containers for re-use or disposal. |



Tiertime Corporation

| 7. Handling and storage | |
|-------------------------------|--|
| Precautions for safe handling | Avoid processing material above recommended thermal processing temperatures. Good general ventilation should be sufficient for most conditions. Consider the use of local exhaust ventilation at processing emission points. Avoid breathing thermal processing fumes and vapors. Mechanical handling equipment can cause formation of dust. Avoid breathing dust. Use proper grounding techniques when handling this product to avoid electrostatic charges. Pellets on the floor may be slippery and cause falls. |
| Storage recommendations | To maintain product quality, store product in a cool, dry and well-ventilated area. Keep in a tightly sealed container. |

| 8. Exposure controls / Personal protection | |
|--|--|
| Engineering measures | Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed. |
| Respiratory protection | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. When processing at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. |
| Eye protection | Use safety glasses if there is a potential risk for exposure to particles. Use safety glasses if vapor exposure causes eye discomfort. |
| Hand/Skin protection | Wear gloves for handling hot material during processing. |
| Thermal hazards | Wear suitable protective clothing to prevent heat. |

| 9. Physical and chemical properties | |
|-------------------------------------|-------------------------------------|
| Appearance | 1.75mm dimension filament and solid |
| Odor: | Not noticeable. |
| Boiling point/range | Not applicable. |
| Vapor pressure | Not applicable. |
| Density | 1.26 g/cm ³ . |
| Solubility(in water) | Insoluble |
| Flammability limit - lower (%) | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Upper/lower explosive limits | Not applicable |
| Explosive properties | Not applicable |



Tiertime Corporation

| 10. Stability and reactivity | |
|------------------------------------|---|
| Reactivity | The substance is stable under normal storage and handling conditions. |
| Stability | Stable at room temperature in closed containers under normal storage and handling conditions. |
| Hazardous decomposition products | These potential decomposition gases have not been fully determined but may include carbon oxides, sulphur oxides. |
| Conditions to avoid | Incompatible materials. |
| Possibility of hazardous reactions | No dangerous reactions known. |
| Incompatible materials | Strong oxidizing agents |

| 11. Toxicological information | |
|-----------------------------------|--|
| Acute toxicity - LD50 (Oral, Rat) | Not available |
| Serious eye damage/irritation | Not classified |
| Skin contact | At room temperature essentially non-irritating to skin. At high temperature vapors may cause sensitization. No toxicity studies have been conducted. |
| Respiratory or skin sensitization | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

| 12. Ecological information | |
|--------------------------------|---------------|
| Acute toxicity-LC50(96h, Fish) | Not available |
| Persistence and degradability | Not available |
| Bioaccumulative potential | Not available |
| Other adverse effects | Not available |

| 13. Disposal considerations | |
|---|--|
| Waste treatment methods: The unused product is not considered a hazardous waste. Do not dump into any sewers, on the ground or into any body of water. Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations. | |



Tiertime Corporation

| 14. Transport information | |
|----------------------------|--|
| Transport information | This product is NOT REGULATED for domestic and international transportation in terms of UN number, UN Proper shipping name, transport hazard Class(es), Packing group and environmental hazards. |
| Transportation precautions | Avoid moisture and heat, dust accumulation and high accumulation, avoid contact with strong alkalis and oxidants. |

| 15. Regulatory information | |
|--|--|
| This product does not need to be labeled according to Chinese regulations. | |
| EINECS status | All starting raw materials of this product are listed on EINECS. |
| TSCA status | All ingredients are on the TSCA inventory. |

| 16. Other information | |
|--|---|
| Disclaimer of responsibility | The information provided in this document is generated for the purpose of distributing health, safety and environmental data. Information contained herein is given in good faith and believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied. |
| <p>The conditions or methods of handling, storage, use and disposal of the product are beyond our control and we do not assume responsibility and expressly disclaim liability for loss, damage or expense connected with them.</p> <p>Compliance with all applicable state and local laws and local regulations remains the responsibility of the user.</p> | |