

# MATERIAL SAFETY DATA SHEET

## Industrial Polyester Fiber and Resin

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME** GHT(General High Tenacity) ; SHT(Super High Tenacity); FHT(High Tenacity for Seat Belt);SLS(Super Low Shrinkage) ; TLS(High Tenacity Low Shrinkage); TMS(High Tenacity Medium shrinkage); HMLS(High Modulus Low Shrinkage); Color Yarn; Low Wick Yarn; AA yarn(Adhesion Activated); Bright Polyester Chip;Semi-Dull Polyester Chip;

**OTHER/GENERIC NAMES:** Industrial Polyester Fiber and Resin

**PRODUCT USE:** Industrial fiber or resin. If the fiber is to be used for special applications, e.g., in the Food handling industry, or in the medical or surgical sector, please contact Zhejiang Guxiandao Industrial fibre Co.,Ltd. to determine the suitability of the intended use.

**MANUFACTURER:** Zhejiang Guxiandao Industrial fibre Co.,Ltd.  
Yue Dong Road, Pao Jiang Industrial District,  
Shaoxing City, Zhejiang Province, China.

#### FOR MORE INFORMATION CALL:

(Monday-Friday, 8:00am-5:00pm)  
Product Stewardship  
00-86-575-88138005

#### IN CASE OF EMERGENCY CALL:

(24 Hours/Day, 7 Days/Week)  
00-86-575-88138013

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Polyethylene Terephthalate	25038-59-9	> 98

Trace impurities and additional material names not listed above may also appear in Section 15 toward the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

### 3. HAZARDS IDENTIFICATION

There are no hazards associated with the product for which first aid is required.

#### POTENTIAL HEALTH HAZARDS

**SKIN:** May cause mechanical irritation.

**EYES:** May cause mechanical irritation.

**INHALATION:** Not respirable in this form. Thermal processing of fiber may generate fumes and vapors which may cause irritation to the nose and throat. Dust should be considered as a nuisance dust (see Section 8).

**INGESTION:** Not a probable route of exposure.

**DELAYED EFFECTS:** None known

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Ingredients found on one of the OSHA designated carcinogen lists are listed below.

**INGREDIENT NAME**

**NTP STATUS**

**IARC STATUS**

**OSHA LIST**

No ingredients listed in this section.

#### 4. FIRST AID MEASURES

- SKIN:** If irritation develops, wash affected area with soap and water. If discomfort continues, obtain medical attention.
- EYES:** If irritation develops, flush eyes with running water. If discomfort continues, obtain medical attention.
- INHALATION:** If processing vapor occurs and irritation develops, remove person to fresh air. If discomfort persists, seek medical attention.
- INGESTION:** Not a probable route of exposure.
- ADVICE TO PHYSICIAN:** No specific advice. Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**

- FLASH POINT:** Not applicable
- FLASH POINT METHOD:** Not applicable
- AUTOIGNITION TEMPERATURE: UPPER** 500<sup>0</sup> C (Layer Ignition Temperature)
- FLAME LIMIT (volume % in air): LOWER** Not applicable
- FLAME LIMIT (volume % in air): FLAME** Not applicable
- PROPAGATION RATE (solids):** Not determined
- OSHA FLAMMABILITY CLASS:** Not applicable

**EXTINGUISHING MEDIA:**

All standard agents may be used.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None.

**SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**

Wear self-contained breathing apparatus meeting NIOSH standards. Avoid excessive inhalation of smoke or potential thermal decomposition products.

#### 6. ACCIDENTAL RELEASE MEASURES

**IN CASES OF SPILL OR OTHER RELEASE:** (Always wear recommended personal protective equipment.)

Sweep or vacuum and place in containers for disposal to an approved landfill or reuse.

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### **7. HANDLING AND STORAGE**

**NORMAL HANDLING:** (Always wear recommended personal protective equipment.)

No special handling requirements.

**STORAGE RECOMMENDATIONS:**

No special storage requirements.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:**

Mechanical ventilation should be used during processing to remove any dusts, mists, or vapors, which may be generated.

#### **PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:**

Protect against potential physical hazards such as contact with yarn moving at high speed, etc.

**EYE PROTECTION:**

Safety glasses are recommended during processing.

**RESPIRATORY PROTECTION:**

None normally required.

**ADDITIONAL RECOMMENDATIONS:**

None required.

**EXPOSURE GUIDELINES** (Guidelines exist for the following ingredients)

**INGREDIENT NAME**

**ACGIH TLV**

**OSHA PEL**

**OTHER LIMIT**

\* No ingredients listed in this section \*

#### **OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:**

Dust should be considered a nuisance dust:

ACGIH TLV: 10 mg/m<sup>3</sup> total dust

OSHA PEL: 15-mg/m<sup>3</sup> total dust; 5-mg/m<sup>3</sup> respirable dust

See Section 16 regarding finish mists.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	off white solid or delustered fiber or colored fiber or clear to super bright resin
<b>PHYSICAL STATE:</b>	Solid
<b>MOLECULAR WEIGHT:</b>	>30,000
<b>CHEMICAL FORMULA:</b>	(C <sub>10</sub> H <sub>8</sub> O <sub>4</sub> ) <sub>x</sub>
<b>ODOR:</b>	No specific odor.
<b>SPECIFIC GRAVITY (water = 1.0):</b>	1.3 - 1.4 g/cm <sup>3</sup>
<b>SOLUBILITY IN WATER (weight %):</b>	Insoluble
<b>pH:</b>	Not applicable
<b>BOILING POINT:</b>	Not determined
<b>MELTING POINT:</b>	260 °C
<b>VAPOR PRESSURE:</b>	Not applicable
<b>VAPOR DENSITY (air = 1.0):</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not applicable
<b>% VOLATILES:</b>	Not applicable
<b>FLASH POINT:</b>	Not determined

(Flash point method and additional flammability data are found in Section 5.)

**COMPARED TO:** Not applicable

### 10. STABILITY AND REACTIVITY

#### **NORMALLY STABLE? (CONDITIONS TO AVOID):**

Normally stable

#### **INCOMPATIBILITIES:**

Tends to dissolve in caustic materials.

#### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition products may include CO, ethylene glycol, aldehydes and other C, H, and O compounds varying in chemical structure and molecular weights.

#### **HAZARDOUS POLYMERIZATION:**

Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### **IMMEDIATE (ACUTE) EFFECTS:**

Not considered to cause irritant or allergic contact dermatitis based on testing results for skin irritation (rabbits), skin sensitization (guinea pig), and clinic evaluation using repeated insult patch test.

#### **DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

Not Available

#### **OTHER DATA:**

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### 12. ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

#### RCRA

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is: Not

**OTHER DISPOSAL CONSIDERATIONS:** Dispose of as nonhazardous waste in accordance with local, state and federal regulations

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

### 14. TRANSPORT INFORMATION

**US DOT PROPER SHIPPING NAME:**

**US DOT HAZARD CLASS:** Not regulated

**US DOT ID NUMBER:** Not applicable

Store in dry area. Keep away from heat sources

### 15. REGULATORY INFORMATION

#### TOXIC SUBSTANCES CONTROL ACT (TSCA)

**TSCA INVENTORY STATUS:** Polymer is listed on the TSCA Inventory.

**OTHER TSCA ISSUES:** None

#### SARA TITLE III / CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

#### INGREDIENT NAME

#### SARA/CERCLA RQ (lb.)

#### SARA EHS TPQ (lb.)

No ingredients listed in this section.

**SECTION 311 HAZARD CLASS:** No ingredients listed in this section

**SARA 313 TOXIC CHEMICALS:** No ingredients listed in this section

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**ADDITIONAL REGULATORY INFORMATION:**

None.

**WHMIS CLASSIFICATION (CANADA):**

Not a controlled product.

**FOREIGN INVENTORY STATUS:**

Not determined.

**16. OTHER INFORMATION**

Polyester Fibers are coated with minor quantities of finish oils. Textile processes may volatilize portions of these finishes and produce visible misting in the workplace. Ventilation is recommended to minimize exposure to such finish mists which should not exceed a concentration of 5 mg/m<sup>3</sup> (ACGIH TLV for mineral oil)