

## Material Safety Data Sheet (MSDS)

### 1 Identification of the substance and of the company

- .Product name: POLYETHYLENE FIBER
- .Product code: UHMWPE Fiber
- .End uses: ROPE
- .Manufacturer/Supplier: Beijing Tongyizhong Specialty Fiber Technology & Development Co., Ltd
- .Address: No.17, Jingsheng South 2nd Street, Majuqiao Town, Tongzhou District, Beijing, China
- .Tel: +86-10-5671 0302
- .Fax: +86-10-5671 0309
- .E-Mail: xiawen@bjtyz.com
- .Further information obtainable from: Beijing Tongyizhong Specialty Fiber Technology & Development Co., Ltd
- .Emergency Telephone Number: +86-183 2272 6553
- .Contact: Xia Wen

### 2 Hazards identification

- .NFPA ratings (scale 0 - 4)



Health = 0; Fire = 1; Reactivity = 0

- .Classification of the substance or mixture
- .Classification according to GHS : Not classified as dangerous goods.
- .Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.
- .Labelling according to Regulation (EC) No 1272/2008: Not applicable.
- .Emergency Overview: Irritating vapors to respiratory system and eyes may form when product is processed at high temperatures or burning. Molten or heated material in skin contact can cause severe burns.
- .Potential Acute Health Effects:
- .Eyes: Under normal circumstances products is no eye contact hazard.  
Heated Product: Eye contact can cause serious thermal burns. Vapors or fume formed may be irritating to the eye when product is heated or burning.
- .Skin: No known acute effects of this product resulting from skin contact. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.  
Heat melted or burning Product: skin contact can cause serious thermal burns.
- .Inhalation: Negligible at room temperature. Irritating vapors or fume can be irritating to the upper respiratory tract. when the product is processed at high temperatures or burning.



**.Ingestion:** This products is not toxic, But harmful if swallowed, and swallowing may be have a choking hazard.

**.Potential Chronic Health Effects:**

**.CARCINOGENIC EFFECTS:** This material is not a carcinogen. Classified NONE by NTP, NONE ,OSHA and by IARC.

**.MUTAGENIC EFFECTS:** Not available.

**.TERATOGENIC EFFECTS:** Not available.

**.Results of PBT and vPvB assessment :** Not applicable.

### 3 Composition/information on ingredients

**.Description:** Mixture of substances listed below with additions.

Components Name	CAS Number	EC Number	Weight Percent (%)
Poly(ethylene)	9002-88-4	-- -- --	99.68%
White mine oil	8042-47-5	232-455-8	0.16%
Alkane	68553-14-0	271-391-5	0.16%

### 4 First aid measures

**.After inhalation:** The material is not expected to present an inhalation hazard.

**.After skin contact:** Cool skin rapidly if contacted with molten product. Obtain medical attention for thermal burn.

**.After eye contact:** Immediately flush eyes with plenty of water for a few minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**.After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

**.General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Decomposes at high temperatures, resulting in toxic and corrosive products. Containers may explode when heated.

**.Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. Cool containers with flooding quantities of water until well after fire is out.

**.Auto ignition Temperature:** Not available.

**.Fire & explosion hazards:** Dense smoke emitted when burned without sufficient oxygen. Heating or burning will release toxic gases or fumes, Negligible explosion hazard.

**.Other information:** Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

## 6 Accidental release measures

- .Small Spill and Leak:** This product is solid, Small leak is meaningless, where have scattered only need to clean up it.
- .Large Spill and Leak:** No danger, only need to recycling collection the leak products and repackaging.

## 7 Handling and storage

- .Handling:** Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee training in hazards.
- .Storage:** Keep in a cool place. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## 8 Exposure controls/personal protection

- .Ventilation and Engineering controls:** No special ventilation and engineering controls are required, handling of these products need keep good ventilation.
- .Respiratory Protection:** No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized applicable the EU regulations.
- .Body Protection:** No special protective clothing is required.
- .Protective Gloves:** Unnecessary, When need choose rubber gloves or other insulated gloves.
- .Eye Protection:** Unnecessary, When necessary wear chemical goggles or face shield.

## 9 Physical and chemical properties

.General Information	
<b>.Form:</b>	Solid Fiber
<b>.Color:</b>	White
<b>.Odor:</b>	No odor
.Change in condition	
<b>.Melting point/Melting range:</b>	130~135 °C
<b>.Decomposition temperature:</b>	Not available
<b>.Tensile strength:</b>	Not available
<b>.Self-igniting:</b>	Not available
<b>.Danger of explosion:</b>	Product does not present an explosion hazard
<b>.Density:</b>	0.97 g/cm <sup>3</sup>
<b>.Relative density:</b>	<1 (Water=1)
<b>.Vapor density:</b>	Not available
.Solubility in/Miscibility with	
<b>.Water:</b>	Insoluble
<b>.PH-Value:</b>	Not available
<b>.Viscosity:</b>	Not available

## 10 Stability and reactivity

- .Chemical Stability:** The product is stable.
- .Incompatibilities with Other Materials:** Incompatible with strong oxidizing agents.
- .Hazardous Decomposition Products:** The following combustion products may be generated: oxycarbide, oxynitride, and trace volatile organic compounds.
- .Hazardous Productization:** Hazardous productization will not occur.

## 11 Toxicological information

- .Toxicity to Animals:**
  - LD50: Not available.
  - LC50: Not available.
- .Chronic Effects on Humans: CARCINOGENIC EFFECTS:** Classified NONE by NTP, NONE by OSHA. 3 (Not classifiable for human.) by IARC.
- .Other Toxic Effects on Humans:** None

## 12 Ecological information

- .Mobility and bioaccumulation potential:** No further relevant information available.
- .Ecotoxicological effects:** May cause long-term adverse effects in the environment.
- .Aquatic toxicity:** No further relevant information available.
- .Environmental Precautions:** It must be disposed of by incineration or in an authorized waste deposit.

## 13 Disposal considerations

- .Product:** Must be disposed of in accordance with applicable Federal, state and local regulations.
- .Recommendation:** Must not be disposed together with household garbage.
- .Uncleaned packaging:** Recommendation Disposal must be made according to official regulations.

## 14 Transport information

- .UN Proper Shipping Name:** Not applicable.
- .UN Number:** Not applicable.
- .Packing Group:** Not applicable.
- .USCG Proper Shipping Name:** Not applicable.
- .Marine Pollutant:** Not available.
- .Hazardous Substance Reportable Quantity:** Not available.
- .Special Provisions for Transport:** Not applicable.
- .TDG Classification:** Not controlled under TDG (Canada).
- .ADR/RID Classification:** Not controlled under ADR( Europe)
- .IMO/IMDG Classification:** Not Controlled under IMDG
- .ICAO/IATA Classification:** Not controlled under IATA.

**15 Regulatory information**

- .Safety, health and environmental regulations/legislation specific for the substance or mixture**
- .Regulation (EC) No. 1272/2008 (CLP):** These products is not classified as hazardous under CLP.
- .Directive 2012/18/EU**
- .Named dangerous substances - ANNEX I:** None of the ingredients is listed.
- .Seveso category:** Not applicable.
- .Additional classification according to Decree on Hazardous Materials, Annex II:** Not classified.
- .Water hazard class:** Water hazard class 0 (Self-assessment): No hazardous for water.
- .Other regulations, limitations and prohibitive regulations**
- .SVHC Candidate List of REACH Regulation Annex XIV Authorisation (12/1/2017):** None of the ingredients is listed.
- .REACH Regulation Annex XVII Restriction (3/2/2017):** None of the ingredients is listed.
- .REACH Regulation Annex XIV Authorization List (14/8/2014) :** None of the ingredients is listed.
- .Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

**The contents and format of this MSDS / SDS are in accordance with ISO Commission Directive ISO11014-2009, Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.**

**DISCLAIMER OF LIABILITY**

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handing, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

**• Abbreviations and acronyms:**

- ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG:** International Maritime Code for Dangerous Goods
- IATA:** International Air Transport Association
- ICAO:** International Civil Aviation Organization
- GHS:** Globally Harmonized System of Classification and Labelling of Chemicals
- CAS:** Chemical Abstracts Service (division of the American Chemical Society)
- ACGIH:** American Conference of Governmental Industrial Hygienists
- DNEL:** Derived No-Effect Level (REACH)
- PNEC:** Predicted No-Effect Concentration (REACH)
- LC50:** Lethal concentration, 50 percent
- LD50:** Lethal dose, 50 percent
- PBT:** Persistent, Bioaccumulative and Toxic
- vPvB:** very Persistent and very Bioaccumulative

\*\*\*\*\*The End\*\*\*\*\*