

The MSDS format adheres to the standards and regulatory requirements of China and may not meet regulatory requirements in other countries.

## Polysulfone PSU

# Materials Safety Data Sheet

Latest Revision: Jan. 15<sup>th</sup>, 2016

### Section 1 Product and Company Identification

Product name: Paryls® Polysulfone

Product grade(s): F3050

F3150

F3250

Company's Name: Jiangmen Youju New Materials Co., Ltd.

Company's Address: No.291, Longxi Road, Hi-Tech Zone, Jiangmen, Guangdong, P.R. China

Company's Phone Number: +86-750-3697268

Company's Fax Number: +86-750-3697298

### Section 2 Hazards Identification

#### Emergency Overview

- Specific Physical Form: Powder or Pellets
- Odor, Color: Odorless, amber.
- General Physical Form: Solid

Immediate health, physical, and environmental hazards: May cause target organ effects.

Handle in accordance with good industrial hygiene and safety practices.

#### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material.

As a finished product, it is a synthetic, high molecular weight polymer. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type. Melt processing under normal conditions should not release hazardous fumes.

### Section 3 Composition/Information on Ingredients

#### 3.1 Substances

Chemical nature

Polysulfone(PSU)

CAS-No.: 25154-01-2

**3.2. Mixtures**

Not applicable

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**Section 4 First Aid Measures**

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN POLYMER. Get immediate medical attention.

**Skin Contact:** Immediately flush skin with large amounts of soap water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN POLYMER. Cool down with water if got burnt by molten polymer. Get immediate medical attention.

**Inhalation:** Move the person to fresh air, get immediate medical attention.

**If Swallowed:** Get immediate medical attention.

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**Section 5 Fire fighting measures****Flammable Properties**

Autoignition temperature: Not Applicable

Flash Point: Not Applicable

Flammable Limits-LEL: Not Applicable

Flammable Limits-UEL: Not Applicable

**Suitable Extinguishing Media**

Powder

Foam

Water

Water spray

Carbon dioxide (CO<sub>2</sub>)**Protection of Fire Fighters**

In the event of fire, wear self-contained breathing apparatus.

Fire fighters must wear fire resistant personnel protective equipment.

**Other information**

Avoid dust formation.

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**Section 6 Accidental Release Measures****In case of Spill or Leak**

Contain spill. Sweep or scoop up and remove to suitable container. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent.

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**Section 7 Handling and storage****Handling (Personnel)**

Avoid breathing processing fumes or vapor. Use only with adequate ventilation. Avoid

prolonged contact with eyes, skin and clothing. Keep container tightly closed.

**Storage**

Protect from sunlight. Keep container tightly closed in dry place.

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**Section 8 Exposure Controls /Personal Protection****Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. Dilution ventilation is acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment.

**Eye/Face Protection**

Avoid eye contact. The following eye protections are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

**Skin Protection**

Avoid skin contact with hot polymer. Wear protective gloves, long sleeve cotton shirt and long pants when handling molten polymer.

**Respiratory Protection**

During heating: Avoid breathing of vapors. Use a positive pressure supplied-air respirator if there is a potential for exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face piece or full face air-purifying respirator with N95 particulate filters.

**Prevention of Swallowing**

Do not eat, drink or smoke when using this project. Wash exposed areas thoroughly with soap and water.

**Section 9 Physical and Chemical Properties**

**Appearance:** Pellets, Powder

**Color:** Amber

**Odor:** Odorless

**Specific Gravity:** 1.20-1.30 g/cm<sup>3</sup>

**Glass-transition Temperature :**187°C

**Decomposition:** >400°C

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**Section 10 Stability and Reactivity**

**Stability:** Stable under normal conditions.

Hazardous Polymerisation/Polymerization: no

**Conditions to avoid**

Heat, flames and sparks.

To avoid thermal decomposition, do not overheat.

Avoid dust formation.

The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polypropylene(PP) and polythene, etc. If PP or any other resin with a decomposition temperature below 370°C is molded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding and other processing equipment prior to changeover and prevent cross contamination of material handling systems.

#### **Hazardous decomposition products**

Carbon monoxide, Sulphur oxides, Hydrocarbons, The release of other hazardous decomposition products is possible.

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### **Section 11 Toxicological Information**

**The product is biologically inert.**

Product dust may be irritating to eyes, skin and respiratory system.

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

#### **Health effects**

Mechanical irritation from the particulates generated by the product.

Thermal decomposition can lead to release of hazardous gases and vapors

#### **Eye contact**

Mechanical irritation from the particulates generated by the product.

#### **Skin contact**

Mechanical irritation from the particulates generated by the product.

#### **Ingestion**

Low ingestion hazard.

### **Section 12 Ecological Information**

#### **Ecotoxicological Information**

No data are available.

#### **Chemical Fate Information**

No data are available.

#### **Remarks**

The product is biologically inert.

Ingestion of solids may cause harm to wildlife due to intestinal mechanical blockage or starvation from false feeling of satiation.

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### **Section 13 Disposal**

**Waste Disposal Method:** Reclaim if feasible. Dispose of waste product in a facility

permitted to accept chemical waste.

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#### **Section 14 Transport Information**

DOT Name Not Regulated

DOT Technical Name

DOT Hazard Class

UN Number

DOT Packing Group                      PG

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#### **Section 15 Regulatory Information**

GB Inventory Status: In compliance with GB Inventory requirement for commercial purposes

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#### **Section 16 Other Information**

**Responsibility for MSDS: Jiangmen Youju New Materials Co., Ltd.**

**Address:** No.291, Longxi Road, Hi-Tech Zone, Jiangmen, Guangdong, P.R. China

**Telephone: +86-750-3697268**

**This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.**

----- **End of MSDS** -----