



## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name	Polyphenylsulfone
Common Name	PPSF
General Use	Thermoplastic filament for Stratasys® Inc. FDM™ modeler
Manufacturer and Address:	Stratasys Inc. 14950 Martin Drive Minneapolis, MN 55344-2020 USA
Emergency Telephone Number:	+1 952-937-3000

## 2. COMPOSITION, INGREDIENT INFORMATION

Component	CAS #	%	OSHA/PEL	ACGIH/TLV
Polyphenylsulfone thermoplastic	Mixture	100	N/E	N/E

N/E = not established

PPSF is not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR § 1910.1200.

## 3. HAZARDS IDENTIFICATION

Emergency Overview	Thermoplastic mixture
HMIS Ratings	Health: 0      Flammability: 1      Reactivity: 0
Inhalation	Dust may irritate the respiratory system and cause coughing or sneezing
Eye Contact	Dust may be irritating to the eyes
Skin Contact	Contact with molten material will cause thermal burns
Ingestion	May irritate the intestinal tract
Chronic	No data available
Carcinogenicity	None of the components of this mixture is listed by NTP, OSHA, or ACGIH as a carcinogen



#### 4. EMERGENCY AND FIRST AID MEASURES

Inhalation	If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water immediately. Get medical attention if irritation or burns develop.
Eye Contact	In cases of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, call a physician. If conscious, drink a large amount of water. Never give anything orally to an unconscious person.

#### 5. FIRE-FIGHTING MEASURES AND EXPLOSION HAZARD DATA

Flash Point	Non-flammable
Autoignition Temperature	936° F (502° C)
Extinguishing Media	Agents approved for Class "A" hazards (i.e., foam, steam) or water fog
Special Fire-Fighting Procedures	Evacuate personnel to a safe area. Keep personnel informed and away from fire. Wear self-contained breathing apparatus and full protective equipment.
Unusual Fire and Explosion Hazards	None known
Hazardous Decomposition Products	Thermal decomposition will produce oxides of carbon and phosphorous

#### 6. ACCIDENTAL RELEASE MEASURES

General	Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.
Specific	Contain spill. Sweep up material for recycling or disposal. Do not wash residues into drains or other waterways.



## 7. HANDLING AND STORAGE

Handling	Keep dry and avoid temperatures over 70°C
Storage	Store in a cool, well-ventilated area. Keep container tightly closed

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation	Use with adequate ventilation
Respiratory	Use proper respiratory equipment if dust is generated
Protective Gloves	Not needed other than when handling material at elevated temperatures
Eye Protection	Wear safety goggles to prevent contact with eyes
Skin	None required; however, use of protective gloves/clothing is good industrial practice
Other	Use protective clothing as appropriate

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque or colored solid
Odor	Odorless
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Melting Point	Not determined
Boiling Point	Not applicable
Specific Gravity	1.29
Volatile by Volume (water)	Not determined
Solubility in Water	Insoluble
pH	Not applicable



## 10. STABILITY AND REACTIVITY

Stability	Stable under normal recommended storage and handling conditions (see section 7)
Hazardous Polymerization	Will not occur
Incompatibility	Prolonged contact with aromatic solvents
Hazardous Thermal Decomposition Products	Thermal decomposition will produce oxides of carbon, silicon, and sulfur

## 11. TOXICOLOGICAL DATA

Acute Oral	No data available. Not expected to be harmful.
Acute Dermal	No data available. Not expected to be harmful.
Acute Inhalation	No data available. Not expected to be harmful.
Skin Irritation	No data available. Not expected to be harmful.
Eye Irritation	No data available. Not expected to be harmful.
Genotoxicity	No data available. Not expected to be harmful.

## 12. ECOLOGICAL INFORMATION

Fish Toxicity	No data available
Daphnia Toxicity	No data available
Bioaccumulation	No data available

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes and used containers must be in accordance with applicable federal, state and local regulations.



## 14. TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)

U.S. Department of Transportation (D.O.T.)	This product is not regulated by D.O.T. when shipped domestically by land
Canadian TDG Information	This product is not regulated by TDG when shipped domestically by land

## 15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)

All components of this product are listed on these chemical inventories: U.S. TSCA, Canadian DSL, EU EINECS, Japanese ENCS, Korean ECL, Australian AICS

## 16. OTHER INFORMATION

THE INFORMATION contained in the PROCEEDING report is based upon current knowledge, our experience with the product, and is not exhaustive. While not guaranteed, the information presented herein was prepared by a competent, technical professional and is true and accurate to the best of our knowledge. The information applies to the product as defined by the specifications. If the product is mixed with other substances, the customer must confirm that no new hazards exist. In all cases, the user is not exempt from following all legal, administrative and regulatory procedures relating to the product, personal hygiene, and the integrity of the work environment. Stratasys® shall not be held liable for any damage resulting from handling or from contact and use with the above product.

### Revision History

Revision	Revision Date
1.0	5/29/02
1.1	5/23/03
1.2	4/14/04