

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/05/2013

Reviewed on 03/05/2013

1 Identification of the substance/mixture and of the company/undertaking
· Product identifier
· Trade name: PPSF Model
· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the preparation Filament for Stratasys® Inc. FDM™ modeler

· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:

Stratasys, Inc.
 7665 Commerce Way
 Eden Prairie, MN 55344
 USA

Tel +1 952 937 3000
 Fax +1 952 937 0070

For information in Europe contact:

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 Düsseldorf StraÙe 113
 D-47809 Krefeld
 Germany

Tel.: +49-2151-6520860
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 E-Mail: info@csb-online.de

· Information department: Product safety department.
· Emergency telephone number: see above
2 Hazards identification
· Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
· Label elements
· GHS label elements Void
· Hazard pictograms Void
· Signal word Void
· Hazard statements Void
· Additional information: Void
· Classification system
· NFPA ratings (scale 0-4)

· HMIS

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· Other hazards
· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients
· Chemical characterization: Substances
· CAS No. Description:

Polyphenylsulfone thermoplastic

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· **Identification number(s):** void, polymer

4 First aid measures

- **Description of first aid measures**
- **General information** Remove contaminated clothing.
- **After inhalation**
Supply fresh air; consult doctor in case of complaints.
After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Call a doctor immediately.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture**
Sulphur oxides (SO_x)
Carbon monoxide and carbon dioxide
Hydrocarbons
- **Advice for firefighters**
- **Protective equipment:** Use suitable respiratory protective device.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Do not breathe dust.
Avoid contact with eyes.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage**· Precautions for safe handling***Ensure good ventilation/exhaustion at the workplace.**Prevent formation of dust.**If dust/smoke is developed, avoid breathing dust/smoke.**Avoid contact with eyes.**Avoid contact with hot product.**Make sure that all applicable workplace limits are observed.***· Information about protection against explosions and fires:** *No special measures required.***· Conditions for safe storage, including any incompatibilities****· Storage****· Requirements to be met by storerooms and receptacles:***Observe all local and national regulations for storage of water polluting products.***· Information about storage in one common storage facility:** *Not required.***· Further information about storage conditions:***Store receptacle in a well ventilated area.**Store in cool, dry conditions in well sealed receptacles.**Storage temperature < 70 °C***· Specific end use(s)** *No further relevant information available.***8 Exposure controls/personal protection****· Additional information about design of technical systems:** *No further data; see item 7.***· Control parameters****· Components with limit values that require monitoring at the workplace:***Observe all workplace limits for dust:**TLV inhalable dust: 15 mg/m³ OSHA**TLV respirable dust: 5 mg/m³ OSHA***· Additional information:** *The lists that were valid during the creation were used as basis.***· Exposure controls****· Personal protective equipment****· General protective and hygienic measures***Do not inhale dust / smoke / mist.**Avoid contact with the eyes.**Wash hands before breaks and at the end of work.***· Breathing equipment:***If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.**Use breathing protection in case of dust formation.**Dust proof mask - particle filter mask filter***· Protection of hands:***No chemical-protective gloves required.**Use heat resistant gloves when handling hot/molten product.***· Eye protection:** *Safety glasses***· Body protection:** *Wear heat-resistant protective clothing when handling hot/molten product.***9 Physical and chemical properties****· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:** *solid***Color:** *Different according to coloring*

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· Odor:	odorless
· Odor threshold:	no data available
· pH-value:	Not applicable
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not applicable
· Flash point:	Not applicable
· Flammability (solid, gaseous)	combustible
· Ignition temperature:	502 °C (936 °F)
· Decomposition temperature:	> 430 °C (> 806 °F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined
Upper:	Not determined
· Oxidizing properties	Not applicable
· Vapor pressure:	Not applicable
· Density at 20 °C (68 °F):	1.29 g/cm ³ (10.765 lbs/gal)
· Relative density at 20 °C (68 °F)	1.29 (H ₂ O = 1)
· Vapour density (AIR = 1)	Not applicable
· Evaporation rate	Not applicable
· Solubility in / Miscibility with	
Water:	Insoluble
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
dynamic:	Not applicable
kinematic:	Not applicable
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** see 10.3
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used and stored according to specifications.
 Temperature over 430 °C
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
 Strong oxidizing agents
 Strong acids
 Aromatic solvents
- **Hazardous decomposition products:**
 Carbon monoxide and carbon dioxide
 Hydrocarbons
 Sulfur oxides (SO_x)

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available
- **Primary irritant effect:**
- **on the skin:** Dust particles may mechanically irritate the skin.
- **on the eye:** Dust particles may mechanically irritate the eye.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)
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Substance is not listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment) (German regulation): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Disposal must be made according to local/official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to local/official regulations.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	Void

· UN proper shipping name	
· DOT, IMDG, IATA	Void
· ADR	Void

· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void

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· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

· **TSCA (Toxic Substances Control Act)**

Substance is not listed.

· **Carcinogenicity categories**

· **MAK (German Maximum Workplace Concentration)**

Substance is not listed.

· **National regulations**

· **Disturbance regulations:** Directive 96/82/EC does not apply.

· **Water hazard class:**

Water hazard class 1 (Self-assessment) (German regulation): slightly hazardous for water.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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