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

  For information in Europe contact:

  C.S.B. GmbH
  Düsseldorfer Straße 113
  D-47809 Krefeld
  Germany

  · 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)
    Health = 0  
    Fire = 1  
    Reactivity = 0

· HMIS
    HEALTH 0  
    FIRE 1  
    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

(Contd. on page 2)
Trade name: PPSF Model

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 (SOx)
    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.
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/cm³ (10.765 lbs/gal)
- **Relative density at 20 °C (68 °F):** 1.29 (H₂O = 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.
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)
    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: Void
Trade name: PPSF Model

· Packing group
  · DOT, ADR, IMDG, IATA: Void
  · Environmental hazard(s): 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.
  · Cancerogenity categories
    Substance is not listed.
  · 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