

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- **Trade name:** PC10 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:

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

Tel.: +49-2151-6520860
 Fax: +49-2151-6520869
 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 product 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

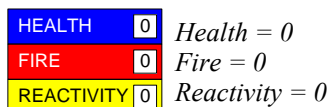
- **Additional information:** Void

- **Classification system**

- **NFPA ratings (scale 0-4)**



- **HMIS**



- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

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 · **Dangerous components:** *Void*

 · **Other components:**

111211-39-3	Polycarbonate	> 95%
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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**
Carbon monoxide and carbon dioxide
Hydrocarbons

 · **Advice for firefighters**

 · **Protective equipment:** *Wear self-contained respiratory protective device.*

 · **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.

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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.**Maximum storage temperature: < 60 °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:***Use breathing protection in case of dust formation.**Dust proof mask - particle filter mask filter**If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.***· 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.*

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9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	<i>solid</i>
Color:	<i>Different according to coloring</i>
· Odor:	<i>Nearly odorless</i>
· Odor threshold:	<i>no data available</i>
· pH-value:	<i>Not applicable</i>
· Change in condition	
Melting point/Melting range:	<i>Not applicable</i>
Boiling point/Boiling range:	<i>Not applicable</i>
· Flash point:	<i>Not applicable</i>
· Flammability (solid, gaseous)	<i>Product is not flammable.</i>
· Ignition temperature:	<i>630 °C (1166 °F)</i>
· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Explosion limits:	
Lower:	<i>Not determined</i>
Upper:	<i>Not determined</i>
· Oxidizing properties	<i>Not applicable</i>
· Vapor pressure:	<i>Not determined</i>
· Density:	<i>Not determined</i>
· Relative density at 20 °C (68 °F)	<i>1.2 (H₂O = 1)</i>
· Vapour density (AIR = 1)	<i>Not determined</i>
· Evaporation rate	<i>Not determined</i>
· Solubility in / Miscibility with	
Water:	<i>Insoluble</i>
· Partition coefficient (n-octanol/water): <i>Not determined</i>	
· Viscosity:	
dynamic:	<i>Not applicable</i>
kinematic:	<i>Not applicable</i>
· Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

- **Reactivity** *see 10.3*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *Temperature over 400 °C*
- **Possibility of hazardous reactions** *No dangerous reactions known*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:**
 - Strong oxidizing agents*
 - Strong acids*
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide*
 - Hydrocarbons*
 - Possible in traces.*

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Phenols

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 estimated

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

- **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)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is 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

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· UN proper shipping name	
· DOT, IMDG, IATA	Void
· ADR	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void
· 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)**

None of the ingredients is listed.

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

None of the ingredients is listed.

 · **Cancerogenity categories**

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

None of the ingredients is 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:**

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

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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