

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 04.02.2013

Revision: 04.02.2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Date of compilation:** 31.01.2005
- **1.1 Product identifier**
- **Trade name:** PC10 Model
- **1.2 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
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Stratasys, Inc. Tel +1 952 937 3000  
7665 Commerce Way Fax +1 952 937 0070  
Eden Prairie, MN 55344  
USA
  
- **For information in Europe contact:**
- **C.S.B. GmbH** Tel.: +49-2151-6520860  
Düsseldorfer Straße 113 Fax: +49-2151-6520869  
D-47809 Krefeld E-Mail: info@csb-online.de  
Germany
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:** As above or next toxicological information centre.

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Other components:**

111211-39-3	Polycarbonate	> 95%
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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:**  
Supply fresh air; consult doctor in case of symptoms.  
After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.
- **After skin contact:**  
Instantly 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 doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Hydrocarbons
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid causing dust.  
Do not breathe dust.  
Avoid contact with eyes.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Collect mechanically.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.

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- 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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
- 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 container in a well ventilated position.
- Store in cool, dry conditions in well sealed containers.
- Maximum storage temperature: < 60 °C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- Observe all workplace limits for dust.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
- Do not inhale dust / smoke / mist.
- Avoid contact with the eyes.
- Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
- Use breathing protection in case of dust formation.
- Dust proof mask - particle filter mask
- 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.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- Form: solid
- Colour: different according to colour
- **Smell:** nearly odourless
- **Odour threshold:** no data available
- **pH-value:** not applicable
- **Change in condition**
- **Melting point/Melting range:** not applicable

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<b>Boiling point/Boiling range:</b>	<i>not applicable</i>
· <b>Flash point:</b>	<i>not applicable</i>
· <b>Inflammability (solid, gaseous)</b>	<i>Product is not flammable.</i>
· <b>Ignition temperature:</b>	<i>630 °C</i>
· <b>Self-inflammability:</b>	<i>Product is not selfigniting.</i>
· <b>Danger of explosion:</b>	<i>Product is not explosive.</i>
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	<i>not determined</i>
<b>Upper:</b>	<i>not determined</i>
· <b>Oxidizing properties</b>	<i>not applicable</i>
· <b>Vapor pressure:</b>	<i>not determined</i>
· <b>Density:</b>	<i>not determined</i>
· <b>Relative density at 20 °C</b>	<i>1.2 (H<sub>2</sub>O = 1)</i>
· <b>Vapour density (AIR = 1):</b>	<i>not determined</i>
· <b>Evaporation rate</b>	<i>not determined</i>
· <b>Solubility in / Miscibility with Water:</b>	<i>insoluble</i>
· <b>Partition coefficient (n-octanol/water):</b>	<i>not determined</i>
· <b>Viscosity:</b>	
<b>dynamic:</b>	<i>not applicable</i>
<b>kinematic:</b>	<i>not applicable</i>
· <b>9.2 Other information</b>	<i>No further relevant information available.</i>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *Temperature over 400 °C*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:**
  - Strong oxidizing agents*
  - Strong acids*
- **10.6 Hazardous decomposition products:**
  - Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)*
  - Hydrocarbons*
  - Possible in traces.*
  - Phenols*

### SECTION 11: Toxicological information

- **11.1 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)

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- **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 effect 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.
- **Repeated dose toxicity not classified**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
According to present knowledge no CMR-effects known.

### SECTION 12: Ecological information

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

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Waste disposal key number:** According to local/national regulations.
- **European waste catalogue:**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>                    |                 |
| · <b>ADR, IMDG, IATA</b>                   | Void            |
| · <b>14.2 UN proper shipping name</b>      |                 |
| · <b>ADR</b>                               | Void            |
| · <b>IMDG, IATA</b>                        | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, IMDG, IATA</b>                   |                 |
| · <b>Class</b>                             | Void            |
| · <b>14.4 Packing group</b>                |                 |
| · <b>ADR, IMDG, IATA</b>                   | Void            |
| · <b>14.5 Environmental hazards:</b>       | Not applicable. |
| · <b>14.6 Special precautions for user</b> | Not applicable. |

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- |   |   |
|---|---|
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | <i>Not applicable.</i>                                      |
| · <b>Transport/Additional information:</b>  | <i>Not dangerous according to the above specifications.</i> |
| · <b>UN "Model Regulation":</b>   | -   |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:** *Directive 96/82/EC does not apply.*
- **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

**SECTION 16: Other information**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Department issuing MSDS:**

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**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  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent*

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