

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

- **Date of issue:** 28.10.2009
- **Product identifier**
- **Trade name:** SR-100
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Support Filament for Stratasys®, Inc. FDM™ Modeler
- **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

- **In Europe:**

C.S.B. GmbH Tel.: +49-2151-6520860
Parkstraße 29 Fax: +49-2151-6520869
D-47829 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
- **Emergency telephone number:** As above or next toxicological information centre

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void**
- **Classification system:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Label elements**
- **Labelling according to EU guidelines:** Observe all safety regulations when handling chemicals.
- **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:
Acrylic polymers
- **Dangerous components:** Void

4 First aid measures

- **Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
Wash with soap and water.

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- 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 mouth with water.
Get medical advice/attention if you feel unwell.*
 - **Information for 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**
Carbon dioxide (CO₂), 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.*
- **Special hazards arising from the substance or mixture**
*Can be released in case of fire:
Smoke
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
Aldehydes*
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
*Remove all ignition sources.
Do not breathe dust.
Avoid contact with eyes.*
- **Environmental precautions:**
Do not allow large quantities of product to reach sewage system or water bodies.
- **Methods and material for containment and cleaning up:**
*Collect mechanically.
Dispose of the material collected according to regulations.*
- **Reference to other sections**
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
Do not breathe dust.
Avoid contact with eyes.
Make sure that all applicable workplace limits are observed.*
- **Information about protection against explosions and fires:** *Keep ignition sources away - Do not smoke.*

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- **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 in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
- **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 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.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Do not breathe dust.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:** Use heat resistant gloves when handling hot/molten product.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:**
Protective clothing should be selected specifically for the working place.
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:	Filament
Colour:	brown
- **Smell:** weak, characteristic
- **Odour threshold:** no data available
- **pH-value:** not applicable
- **Change in condition**

Melting point/Melting range:	no data available
Boiling point/Boiling range:	no data available

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· Flash point:	<i>no data available</i>
· Ignition temperature:	<i>> 400°C</i>
· Decomposition temperature:	<i>> 200°C</i>
· Self-inflammability:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product is not explosive.</i>
· Critical values for explosion:	
Lower:	<i>not applicable</i>
Upper:	<i>not applicable</i>
· Oxidizing properties	<i>not classified as oxidising</i>
· Vapor pressure:	<i>not determined</i>
· Density:	<i>not determined</i>
· Solubility in / Miscibility with Water:	<i>insoluble in cold water soluble in hot water</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**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
*No decomposition if used and stored according to specifications.
Avoid impact, friction, heat, sparks, electrostatic charges.
Temperature over 200°C*
- **Possibility of hazardous reactions**
*Toxic fumes may be released if heated above the decomposition point
The product is not capable of dust explosion in the form supplied; enrichment of fine dust may cause risk of dust explosion.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:**
*Carbon monoxide (CO) and Carbon dioxide (CO₂)
Possible in traces.
Hydrocarbons
Nitrogen oxides (NO_x)
Organic acids
Acrylmonomers, Acrylcompounds
Alcohols
Aldehydes*

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *Dust particles may mechanically irritate the skin.*

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Printing date 42.0; .2012

Version number 1

Revision: 42.0; .2012

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- **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.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Degree of elimination:** no data available
- **Behaviour in environmental systems:**
- **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): 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 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. For that reason waste disposal key numbers different from that listed below may be possible.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · ADR | Void |
| · ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · ADR, IMDG, IATA | Void |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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· **Transport/Additional information:** *Not dangerous according to the above specifications.*

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Designation according to EC guidelines:**
Observe all safety regulations when handling chemicals.
- **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*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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:**
C.S.B. GmbH Phone: +49 - 2151 - 652086-0
Parkstraße 29 Fax: +49 - 2151 - 652086-9
D-47829 Krefeld
Germany
- *** Data compared to the previous version altered.**

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