

Safety Data Sheet acc. to OSHA HCS

Printing date 10/22/2013

Reviewed on 10/22/2013

1 Identification

- **Product identifier**
- **Trade name:** *SR-100/SR-110*
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **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	

- **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	
- **Information department:** *Product safety department.*
- **Emergency telephone number:** *see above*

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *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:
Acrylic polymers*

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· **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 complaints.
- **After skin contact**
Wash with soap and water.
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 mouth with water.
Get medical advice/attention if you feel unwell.
- **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 Fire-fighting 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**
In case of fire, the following can be released:
Smoke
Carbon monoxide and carbon dioxide
In certain fire conditions, traces of other toxic gases cannot be excluded.
Aldehydes
- **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**
Keep away from 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:**
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.**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.***· 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 in cool, dry conditions in well sealed receptacles.**Protect from humidity and 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 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***Avoid contact with the eyes.**Avoid close or long term contact with the skin.**Do not breathe dust.**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.***· 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:***Wear heat-resistant protective clothing when handling hot/molten product.**Body protection must be chosen depending on activity and possible exposure.*

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Filament
· Color:	Brown
· Odor:	Weak, characteristic
· Odor 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

· **Flash point:** no data available

· **Flammability (solid, gaseous)** not classified as flammable solid

· **Ignition temperature:** > 400 °C (> 752 °F)

· **Decomposition temperature:** > 200 °C (> 392 °F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	Not applicable
· Upper:	Not applicable

· **Oxidizing properties** not classified as oxidising

· **Vapor pressure:** Not determined

· **Density:** Not determined

· **Relative density** Not determined

· **Vapour density (AIR = 1)** Not determined

· **Evaporation rate** Not determined

· **Solubility in / Miscibility with**

· Water:	insoluble in cold water soluble in hot water
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· **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.

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.

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
 Carbon monoxide and carbon dioxide
 Possible in traces.
 Hydrocarbons
 Nitrogen oxides (NO_x)
 Organic acids
 Acrylmonomers, Acrylcompounds
 Alcohols
 Aldehyde

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.
- **Subacute to chronic toxicity:** not classified
- **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)
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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.
- **Degree of elimination:** no data 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.
- **Waste disposal key:** According to local/national regulations.

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

14 Transport information

- | | |
|--|--|
| · UN-Number | Void |
| · DOT, ADR, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · 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: | |
| · Marine pollutant: | No |
| · 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)**

All ingredients are listed.

- **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

- **Carcinogenicity 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.

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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)

ICAO: International Civil Aviation Organization

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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

· * Data compared to the previous version altered.

USA