

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

Printing date 20.09.2013

Version number 1

Revision: 19.09.2013

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

· **Date of compilation:** 28.10.2009

· **1.1 Product identifier**

· **Trade name:** SR-30 Soluble Support

· **CAS Number:**

25036-16-2

· **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:**

Soluble Release Material for Stratasys® Inc. FDM™ modelers

· **1.3 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:

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D-47809 Krefeld

Germany

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E-Mail: info@csb-online.de

· **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 substance is not classified according to the CLP regulation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void**

· **Classification system:** void

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008 Void**

· **Hazard pictograms Void**

· **Signal word Void**

· **Hazard statements Void**

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterization: Substances**

· **CAS No. Designation:**

25036-16-2 Terpolymer of Methacrylic Acid, Styrene and Butylacrylate

· **Identification number(s):** void, polymer

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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 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 doctor.
- **After swallowing:** No special measures required.
- **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 (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.
- **5.2 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.
- **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**
 - Wear protective clothing.
 - Avoid contact with eyes.
 - Avoid causing dust.
- **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:**
 - Prevent formation of dust.
 - 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.
 - Prevent formation of dust.
 - Any deposit of dust which cannot be avoided must be removed regularly.

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- Do not breathe dust.*
- Avoid contact with eyes.*
- Make sure that all applicable workplace limits are observed.*
- **Information about protection against explosions and fires:**
 - Protect against electrostatic charges.*
 - Keep ignition sources away - Do not smoke.*
- **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 in cool, dry conditions in well sealed containers.*
- **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 breathe dust.*
 - Avoid contact with the eyes.*
 - Avoid close or long term contact with the skin.*
 - 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:** *Body protection must be chosen depending on activity and possible exposure.*

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	<i>Pellets</i>
Colour:	<i>milky white</i>
Smell:	<i>nearly odourless</i>
Odour threshold:	<i>no data available</i>
- **pH-value:** *not applicable*

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· Change in condition	
Melting point/Melting range:	no data available
Boiling point/Boiling range:	no data available
· Flash point:	no data available
· Inflammability (solid, gaseous)	not classified as flammable solid
· Ignition temperature:	> 450 °C
· Decomposition temperature:	> 290 °C
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Critical values for explosion:	
Lower:	not determined
Upper:	not determined
· Oxidizing properties	not applicable
· Vapor pressure:	not determined
· Density at 20 °C:	1.1 g/cm ³
· Relative density at 20 °C	1.1 (H ₂ O = 1)
· Vapour density (AIR = 1):	not determined
· Evaporation rate	not determined
· Solubility in / Miscibility with Water:	insoluble
· Partition coefficient (n-octanol/water):	not determined
· Viscosity:	
dynamic:	not applicable
kinematic:	not applicable
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Avoid impact, friction, heat, sparks, electrostatic charges.
- **10.3 Possibility of hazardous reactions** Toxic fumes may be released if heated above the decomposition point
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Possible in traces.
Hydrocarbons
Styrene
Nitrogen oxides (NO_x)
Organic acids
Acrylmonomers, Acrylcompounds
Alcohols

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SECTION 11: Toxicological information

- **11.1 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.
- **Sensitisation** No sensitizing effect known.
- **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.
- **Degree of elimination:** no data 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.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|------|
| · 14.1 UN-Number
· ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |

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| · 14.6 Special precautions for user | <i>Not applicable.</i> |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | <i>Not applicable.</i> |
| · Transport/Additional information: | <i>Not dangerous according to the above specifications.</i> |
| · UN "Model Regulation": | <i>-</i> |

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*
 - **Other regulations, limitations and prohibitive regulations**
- The monomer compounds of this product are listed in:*
EINECS / ELINCS (Europa)
- **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:

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
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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