

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2013

Reviewed on 09/19/2013

1 Identification

· **Product identifier**

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

· **CAS Number:**

25036-16-2

· **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

· **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

Düsseldorfer 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 Hazard(s) identification

· **Classification of the substance or mixture**

The substance is not classified according to the Globally Harmonized System (GHS).

· **Label elements**

· **GHS label elements** Void

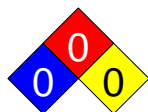
· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Classification system**

· **NFPA ratings (scale 0-4)**



Health = 0

Fire = 0

Reactivity = 0

· **HMIS**



Health = 0

Fire = 0

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description:**
25036-16-2 Terpolymer of Methacrylic Acid, Styrene and Butylacrylate
- **Identification number(s):** void, polymer

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** No special measures required.
- **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.
- **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**
Wear protective clothing.
Avoid contact with eyes.
Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Prevent formation of dust.
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.**Any deposit of dust which cannot be avoided must be regularly removed.**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.***· 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.****· 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 breathe dust.**Avoid contact with the eyes.**Avoid close or long term contact with the skin.**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: 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:	Pellets
Color:	milky white
Odor:	Nearly odorless
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:** > 450 °C (> 842 °F)

· **Decomposition temperature:** > 290 °C (> 554 °F)

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

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

· **Explosion limits:**

Lower:	Not determined
Upper:	Not determined

· **Oxidizing properties** Not applicable

· **Vapor pressure:** Not determined

· **Density at 20 °C (68 °F):** 1.1 g/cm³ (9.18 lbs/gal)

· **Relative density at 20 °C (68 °F)** 1.1 (H₂O = 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

· **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.

· **Possibility of hazardous reactions** Toxic fumes may be released if heated above the decomposition point

· **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.

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Hydrocarbons
Styrene
Nitrogen oxides (NO_x)
Organic acids
Acrylmonomers, Acrylcompounds
Alcohols

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)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not 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.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to local/official regulations.

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14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	Void
· 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
· 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)**

Substance is not listed.

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

9003-56-9 Acrylonitrile/butadiene/styrene copolymer

8042-47-5 White mineral oil (petroleum)

· **Carcinogenicity categories**

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

Substance is not 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.

· **Other regulations, limitations and prohibitive regulations**

The monomer compounds of this product are listed in:

EINECS / ELINCS (Europa)

· **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:**

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

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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

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

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