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

1.1. Product identifier
SSYS Part Number 400645-0002
Product name SR-10™ / P400SR™ Soluble Support Material
Synonyms Acrylic copolymer

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use Additive manufacturing
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet
Importer Stratasys GMBH
Simon Hegele Gesellschaft für Logistik und Service mbH
Tejostraße 1-9 (Unit 5, Gate 67)
65479 Raunheim
Germany
TEL: +49 722 977720
Supplier Stratasys Inc
7665 Commerce Way
Eden Prairie, MN
55344
TEL: 1(952) 937 3000

For further information, please contact
E-mail address objet-info@stratasys.com

1.4. Emergency telephone number
Emergency Telephone Number 1(952) 937 3000
+49 722 9777280 - Europe - Multi lingual response
+49 722 9777281 - Global - English language response

Section 2. Hazards identification

2.1. Classification of the substance or mixture
REGULATION (EC) No 1272/2008
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Physical hazards none

2.2. Label elements
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Signal Word none

2.3. Other information
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight percent</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate</td>
<td>-</td>
<td>25086-15-1</td>
<td>&gt;87</td>
<td>no data available</td>
<td>no data available</td>
</tr>
<tr>
<td>Triphenyl phosphate</td>
<td>204-112-2</td>
<td>115-86-6</td>
<td>&lt;8.1</td>
<td>Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)</td>
<td>no data available</td>
</tr>
<tr>
<td>Phosphate, bis(tert-butylphenyl) phenyl</td>
<td>265-859-8</td>
<td>65652-41-7</td>
<td>&lt;3.6</td>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first aid measures

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact
Wash off with water. If molten polymer contacts the skin, cool rapidly with cold water. Do not attempt to peel cured polymer from skin. Removal of solidified molten material from skin requires medical assistance.

Ingestion
Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects
No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician
Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water. Dry powder. Foam. Carbon dioxide (CO\textsubscript{2}).

Extinguishing Media Which Must not be Used for Safety Reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards Arising from the Substance or Preparation Itself, Combustion Products, Resulting Gases
Burning produces noxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO\textsubscript{2}). Phosphorus oxides. Aldehydes.

5.3. Advice for firefighters

---
Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up
Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections
See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for safe handling
Handling
Handle in accordance with good industrial hygiene and safety practise. Wear personal protective equipment. Ensure adequate ventilation. Prevent contact with molten product. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Hygiene measures
The product may react under alkaline conditions, such as in an aqueous, alkaline solution, to generate and release phenol. The amount of phenol generated will vary based on the conditions of use (e.g., temperature of solution, alkalinity of solution, concentration of the product).

7.2. Conditions for safe storage, including any incompatibilities
Keep tightly closed in a dry and cool place.

7.3. Specific end uses
Exposure scenario
No information available

Other Guidelines
No information available

Section 8. Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>STEL: 6 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
<tr>
<td>115-86-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Italy</th>
<th>Portugal</th>
<th>The Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>TWA: 3 mg/m³</td>
<td></td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
<tr>
<td>115-86-6 ( &lt;8.1 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>STEL: 6 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
<tr>
<td>115-86-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Engineering measures
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye Protection
Safety glasses with side-shields. For handling molten material, use of a faceshield is recommended.

Skin and body protection
No protective equipment is needed under normal use conditions.

Hand protection
When handling hot material, use heat resistant gloves.

Respiratory protection
No protective equipment is needed under normal use conditions.

Environmental Exposure Controls
No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Solid (compressed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>brown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour density</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>no data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

9.2. Other information

VOC Content (%)         No information available
Flammability Limits in Air  no data available

Section 10. Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.
10.4. Conditions to avoid
Incompatible products.

Incompatible materials
Strong oxidising agents. Alkaline materials.

10.6. Hazardous decomposition products
Carbon oxides. Phosphorous oxides. Ketones. Aldehydes. The product may react under alkaline conditions, such as in an aqueous, alkaline solution, to generate and release phenol. The amount of phenol generated will vary based on the conditions of use (e.g., temperature of solution, alkalinity of solution, concentration of the product).

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Product Information
Inhalation
Exposure to volatiles released during hot processing may cause respiratory tract irritation. The product may react under alkaline conditions, such as in an aqueous, alkaline solution, to generate and release phenol. The amount of phenol generated will vary based on the conditions of use (e.g., temperature of solution, alkalinity of solution, concentration of the product).

Eye contact
Contact with eyes may cause irritation.

Skin contact
Contact with molten material will cause thermal burns. The product may react under alkaline conditions, such as in an aqueous, alkaline solution, to generate and release phenol. The amount of phenol generated will vary based on the conditions of use (e.g., temperature of solution, alkalinity of solution, concentration of the product).

Ingestion
Not an expected route of exposure. May be harmful if swallowed. Ingestion may cause stomach discomfort.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>= 3500 mg/kg (Rat)</td>
<td>&gt; 7900 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Phosphate, bis(tert-butylphenyl)phenyl</td>
<td>= 2140 mg/kg (Rat)</td>
<td>&gt; 5 g/kg (Rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

Sensitisation
No information available.

Mutagenic effects
No information available.

Carcinogenic effects
No information available.

Reproductive toxicity
No information available.

Developmental Toxicity
No information available.

Specific target organ systemic toxicity (single exposure)
No information available.

Specific target organ systemic toxicity (repeated exposure)
Target Organ Effects
Eyes. Skin.

Aspiration hazard
No information available.

Section 12. Ecological information

12.1. Toxicity
Ecotoxicity effects
Product level testing was done on this product. Bioassays with freshwater green algae (Pseudokirchneriella subcapitata), water fleas (Ceriodaphnia dubia), and fathead minnows (Pimephales promelas) resulted in a no observable effects level (NOEL), lowest observable effects level (LOEL), and an LC50/EC50/IC50 (lethal, effect, or inhibition concentration at which 50 percent of organisms are adversely affected) of greater than 300 mg/L.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia magna (Water flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>EC50 96 h: 0.6 - 4 mg/L static (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h: 0.28 - 0.5 mg/L static (Oncorhynchus mykiss) LC50 96 h: 0.81 - 0.94 mg/L flow-through (Pimephales promelas) LC50 96 h: 0.53 - 0.8 mg/L static (Pimephales promelas) LC50 96 h: 0.47 - 1.04 mg/L static (Lepomis macrochirus) LC50 96 h: = 1.2 mg/L static (Oryzias latipes)</td>
<td>LC50 96 h: = 0.81 - 0.94 mg/L flow-through (Pimephales promelas)</td>
<td>EC50 48 h: 0.86 - 1.2 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triphenyl phosphate</td>
<td>4.59</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
Adsorbs on soil.

12.5. Results of PBT and vPvB assessment
No information available.

12.6. Other adverse effects
This product does not contain any known or suspected endocrine disruptors

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products
Dispose of in accordance with local regulations. The product may react under alkaline conditions, such as in an aqueous, alkaline solution, to generate and release phenol. The amount of phenol generated will vary based on the conditions of use (e.g., temperature of solution, alkalinity of solution, concentration of the product).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information
IMDG/IMO
14.1. UN-Number not regulated.
14.2. Proper shipping name Not regulated.
14.3. Hazard class not regulated.
14.4. Packing group Description Not applicable.
14.5. Marine pollutant None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

RID
14.1. UN-Number not regulated.
14.2. Proper shipping name Not regulated.
14.3. Hazard class not regulated.
14.4. Packing group Description Not applicable.
14.5. Environmental hazard. None

ADR
14.1. UN-Number not regulated.
14.2. Proper shipping name Not regulated.
14.3. Hazard class Not regulated.
14.4. Packing group Description Not applicable.
14.5. Environmental hazard. None
14.6. Special Provisions None

ICAO
14.1. UN-Number not regulated.
14.2. Proper shipping name not regulated.
14.3. Hazard class not regulated.
14.4. Packing group Description Not applicable.
14.5. Environmental hazard. None
14.6. Special Provisions None

IATA
14.1. UN-Number not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard class not regulated.
14.4. Packing group Description Not applicable.
14.5. Environmental hazard. None
14.6. Special Provisions None

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories
TSCA Complies
WPS-STS-021 - SR-10™ / P400SR™ Soluble Support Material

Revision Date 09-Dec-2015

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**EINECS/ELINCS**  
Not determined

**DSL/NDSL**  
Complies

**PICCS**  
Complies

**ENCS**  
Complies

**IECSC**  
Complies

**AICS**  
Complies

**KECL**  
Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

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**15.2. Chemical Safety Assessment**

No information available

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**Section 16. Other information**

Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Key literature references and sources for data

www.ChemADVISOR.com/

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**Issuing date** 09-Dec-2015

**Revision Date** 09-Dec-2015

**Revision Note** Initial Release.


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**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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End of Safety Data Sheet