SAFETY DATA SHEET

Issuing Date 09-Dec-2015 **Revision Date** 09-Dec-2015 **Revision Number** 0

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

1.1. Product identifier

SSYS Part Number 400645-0001

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	**Supplier**
Stratasys GMBH Simon Hegele Gesellschaft für Logistik und Service mbH Tejostraße 1-9 (Unit 5, Gate 67) 65479 Raunheim Germany TEL: +49 722 977720	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 97772280 - Europe - Multi lingual response
+49 722 97772281 - Global - English language response

Europe	112

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

Section 3. Composition/information on ingredients

3.1. Substances
3.2. Mixtures

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

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_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 obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO_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 practice. 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 use(s)
Exposure Scenario
No information available.

Other Guidelines
No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Triphenyl phosphate 115-86-6		STEL: 6 mg/m^3 TWA: 3 mg/m^3	TWA: 3 mg/m^3	TWA: 3 mg/m^3	
Component	**Italy**	**Portugal**	**The Netherlands**	**Finland**	**Denmark**
Triphenyl phosphate 115-86-6 (<8.1)		TWA: 3 mg/m^3		TWA: 3 mg/m^3 STEL: 6 mg/m^3	TWA: 3 mg/m^3
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Triphenyl phosphate 115-86-6	STEL 6 mg/m^3 TWA: 3 mg/m^3	TWA: 3 mg/m^3		TWA: 3 mg/m^3 STEL: 6 mg/m^3	TWA: 3 mg/m^3 STEL: 6 mg/m^3

Derived No Effect Level No information available.
Predicted No Effect Concentration (PNEC) No information available.

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

Physical State	Solid (compressed)	**Appearance**	Brown
Odor	None		

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

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.

10.5. Incompatible materials
Strong oxidizing 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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triphenyl phosphate	= 3500 mg/kg (Rat)	> 7900 mg/kg (Rabbit)	
Phosphate, bis(tert-butylphenyl) phenyl	= 2140 mg/kg (Rat)	> 5 g/kg (Rabbit)	

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenic Effects No information available.

Reproductive Toxicity No information available.

Developmental Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

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.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)

Triphenyl phosphate	EC50 96 h: 0.6 - 4 mg/L static (Pseudokirchneriella subcapitata)	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)		EC50 48 h: 0.86 - 1.2 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Log Pow
Triphenyl phosphate	4.59

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 Not regulated.
Description Not applicable.
14.5. Marine Pollutant None.
14.6. Special Provisions 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	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	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	Not regulated.
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	Not regulated.
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	Not regulated.
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
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

15.2. Chemical Safety Assessment
No information available

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/

Issuing Date	09-Dec-2015
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Revision Note	Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer
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End of Safety Data Sheet