

Issuing Date No data available

Revision Date 09-Dec-2015

Revision Number 0

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****GHS product identifier****Product Name** SR-10™ / P400SR™ Soluble Support Material**Other means of identification****SSYS Part Number** 400645-0001**Synonyms** Acrylic copolymer**Recommended use of the chemical and restrictions on use****Recommended Use** Additive manufacturing**Uses advised against** No information available**Supplier's details****Supplier Address**Stratasys Inc  
7665 Commerce Way  
Eden Prairie, MN  
55344  
TEL: 1(952) 937 3000**Emergency telephone number****Emergency Telephone Number** 1(952) 937 3000  
+49 722 97772281 - Global - English language response  
+1 978 495 5580 - USA - Multi lingual response**2. HAZARDS IDENTIFICATION****Classification**

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

**GHS Label elements, including precautionary statements****Emergency Overview****Signal Word**

None

The product contains no substances which at their given concentration are considered to be hazardous to health

**Appearance** Brown.**Physical State** Solid (compressed).**Odor** None.**Precautionary Statements****Prevention**

- None

**General Advice**

- None

**Storage**

- None

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

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).

**Other information**

89.5% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** Acrylic copolymer

Chemical Name	CAS-No	Weight %	Trade secret
2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate	25086-15-1	>87	*
Triphenyl phosphate	115-86-6	<8.1	*
Phosphate, bis(tert-butylphenyl) phenyl	65652-41-7	<3.6	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water. Dry powder. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Phosphorus oxides. Aldehydes.

**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation.

**Environmental Precautions**

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

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

**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. 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).

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep tightly closed in a dry and cool place.

**Incompatible Products** Strong oxidizing agents. Alkaline materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate 115-86-6	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> (vacated) TWA: 3 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. For handling molten material, use of a faceshield is recommended.

**Skin and Body Protection** When handling hot material, use heat resistant gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**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).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Solid (compressed).	<b>Appearance</b>	Brown.
<b>Odor</b>	None.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

**Flammable Properties**                      Not flammable

**Explosive Properties**                      No data available

**Oxidizing Properties**                      No data available

**Other information**

**VOC Content (%)**                              No data available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Incompatible products.

**Incompatible materials**

Strong oxidizing agents. Alkaline materials.

**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).

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****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 )	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Reproductive 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.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 89.5% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 2927 mg/kg; Acute toxicity estimate

**LD50 Dermal** 8125 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

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 115-86-6	EC50 96 h: 0.6 - 4 mg/L static ( <i>Pseudokirchneriella subcapitata</i> )	LC50 96 h: 0.28 - 0.5 mg/L static ( <i>Oncorhynchus mykiss</i> ) LC50 96 h: 0.81 - 0.94 mg/L flow-through ( <i>Pimephales promelas</i> ) LC50 96 h: 0.53 - 0.8 mg/L static ( <i>Pimephales promelas</i> ) LC50 96 h: 0.47 - 1.04 mg/L static ( <i>Lepomis macrochirus</i> ) LC50 96 h: = 1.2 mg/L static ( <i>Oryzias latipes</i> )		EC50 48 h: 0.86 - 1.2 mg/L ( <i>Daphnia magna</i> )

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Triphenyl phosphate	4.59

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

Dispose of in accordance with federal, state, and 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**

Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

TSCA Complies  
DSL Complies

**Legend**

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

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

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Triphenyl phosphate	X	X	X		X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Revision Date** 09-Dec-2015

**Revision Note** No information available.

**General 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.

**End of Safety Data Sheet**