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Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SSYS Part Number 400637-0002

Product name SR-20™ 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	Stratasys Inc
Simon Hegele	7665 Commerce Way
Gesellschaft für Logistik und Service mbH	Eden Prairie, MN
Tejostraße 1-9 (Unit 5, Gate 67)	55344
65479 Raunheim	TEL: 1(952) 937 3000
Germany	
TEL: +49 722 977720	

For further information, please contact

E-mail address objet-info@stratasys.com

1.4. Emergency telephone numberEmergency Telephone Number 1(952) 937 3000
+49 722 97772280 - Europe - Multi lingual response
+49 722 97772281 - Global - English language response

Europe	112
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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

Chemical Name	EC-No	CAS-No	Weight percent	EU - GHS Substance Classification	REACH No.
2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate	-	25086-15-1	>90		no data available
Triphenyl phosphate	204-112-2	115-86-6	<3.6	Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	no data available
Phosphate, bis(tert-butylphenyl) phenyl	265-859-8	65652-41-7	<1.6		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 (CO₂).

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 (CO₂). 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**Exposure limits**

Chemical Name	European Union	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 (<3.6)		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
Odour	none		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
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
Vapour pressure	no data available	None known
Vapour 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	
Oxidising 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.

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.

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)	

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)

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

No information available.

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/

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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

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