

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

- **Product identifier**
- **Trade name:** SR20 Support
- **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
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Stratasys, Inc.
7665 Commerce Way
Eden Prairie, MN 55344
USA

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For information in Europe contact:

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- **Information department:** Product safety department.
- **Emergency telephone number:** see above

2 Hazards identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Dangerous for the environment
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system**
- **NFPA ratings (scale 0-4)**

**HMIS**

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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 · **vPvB:** Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Polymer

- **Dangerous components:**

115-86-6	Triphenyl phosphate	 N R50/53  Acute Tox. 4, H302	2.5-10%
65652-41-7	Di-tert-butylphenyl phenyl phosphate	 Xi R38  Skin Irrit. 2, H315	< 2.5%

- **Other components:** Thermoplastic acrylic copolymer

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.
 If skin irritation continues, consult a doctor.
 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**
 Rinse out mouth and then drink plenty of water.
 If symptoms persist consult doctor.
- **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 Firefighting 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**
 Oxides of phosphorus (P_xO_y)
 Carbon monoxide and carbon dioxide
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Avoid formation of dust.
 Do not breathe dust.

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- Avoid contact with eyes.*
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
If dust/smoke is developed, avoid breathing dust/smoke.
Avoid contact with eyes.
Make sure that all applicable workplace limits are observed.
Avoid contact with hot product.
- **Information about protection against explosions and fires:** *No special measures required.*
- **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.
Store receptacle in a well ventilated area.
- **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

115-86-6 Triphenyl phosphate

PEL	3 mg/m ³
REL	3 mg/m ³
TLV	3 mg/m ³

- **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 inhale dust / smoke / mist.
Avoid contact with the eyes.
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.

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- **Protection of hands:**
No chemical-protective gloves required.
Use heat resistant gloves when handling hot/molten product.
- **Eye protection:** *Safety glasses*
- **Body protection:** *Wear heat-resistant protective clothing when handling hot/molten product.*

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:** *solid*
- **Color:** *Dark brown*
- **Odor:** *Acidic*
- **Odor threshold:** *no data available*

- **pH-value:** *Not applicable*

- **Change in condition**

- **Melting point/Melting range:** *Not applicable*
- **Boiling point/Boiling range:** *Not applicable*

- **Flash point:** *> 427°C (> 801 °F)*

- **Flammability (solid, gaseous)** *Not determined*

- **Ignition temperature:** *Not determined*

- **Decomposition temperature:** *Not determined*

- **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):** *1.25 g/cm³ (10.431 lbs/gal)*

- **Solubility in / Miscibility with**

- **Water:** *Insoluble*

- **Viscosity:**

- **dynamic:** *Not applicable*
- **kinematic:** *Not applicable*

- **Other information** *No further relevant information available.*

10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

- *Temperature over 300 °C*
- *No decomposition if used and stored according to specifications.*

- **Possibility of hazardous reactions** *No dangerous reactions known*

- **Conditions to avoid** *No further relevant information available.*

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- **Incompatible materials:**
 Strong oxidizing agents
 Alkaline materials
- **Hazardous decomposition products:**
 Phosphorus oxides (e.g. P_2O_5)
 Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

 · **LD/LC50 values that are relevant for classification:**
115-86-6 Triphenyl phosphate

Oral	LD50	1300 mg/kg (mouse)
		3800 mg/kg (rat)
Dermal	LD50	> 7900 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Dust particles may mechanically irritate the skin.
- **on the eye:** Dust particles may mechanically irritate the eye.
- **Sensitization:** No sensitizing effects known.
- **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)**

None of the ingredients is listed.

 · **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

 · **Toxicity**

 · **Aquatic toxicity:**
115-86-6 Triphenyl phosphate

EC50/48 h	1.35 mg/l (water flea (<i>daphnia magna</i>))
LC50/96 h	0.36 mg/l (rainbow trout (<i>oncorhynchus mykiss</i>))

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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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.

14 Transport information

· UN-Number	UN3077
· DOT, ADR, IMDG, IATA	UN3077
· UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate)
· DOT, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate)
· ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate), MARINE POLLUTANT
· Transport hazard class(es)	
· DOT, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· ADR	
	
· Class	9 (M7) Miscellaneous dangerous substances and articles
· Label	9
· Packing group	III
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:
· DOT
· Remarks:
Special marking with the symbol (fish and tree).
· UN "Model Regulation":
UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate), 9, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· SARA Section 355 (extremely hazardous substances)
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act)
None of the ingredients is listed.
· Cancerogenity categories
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· National regulations
· Information about limitation of use: *Employment restrictions concerning young persons must be observed.*
· Disturbance regulations:
Critical quantity values according to the regulations on accidents should be adhered to.
· Water hazard class: *Water hazard class 2 (Self-assessment): hazardous for water.*
· 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.

· Relevant phrases

The(se) R-phrases are those of the ingredient(s) and do(es) NOT represent the classification of the preparation.

· Department issuing MSDS:

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· Abbreviations and acronyms:

*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
 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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