

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

- **Product identifier**
- **Trade name:** *P400 SR Soluble Support Material*
- **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

Tel +1 952 937 3000
 Fax +1 952 937 0070


In Europe:

C.S.B. GmbH
 Parkstraße 29
 D-47829 Krefeld
 Germany

Tel.: +49-2151-6520860
 Fax: +49-2151-6520869
 E-Mail: info@csb-online.de

- **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	 <i>N R50/53</i>  <i>Acute Tox. 4, H302</i>	2.5-10%
65652-41-7	Di-tert-butylphenyl phenyl phosphate	 <i>Xi R38</i>  <i>Skin Irrit. 2, H315</i>	< 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:** Use suitable 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
· DOT, ADR, IMDG, IATA | UN3077 |
| · UN proper shipping name
· DOT, IATA
· ADR
· IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate)
3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate), MARINE POLLUTANT |
| · Transport hazard class(es)
· DOT, IMDG, IATA | |
|   | |
| · Class
· Label | 9 Miscellaneous dangerous substances and articles.
9 |
| · ADR | |
|   | |
| · Class
· Label | 9 (M7) Miscellaneous dangerous substances and articles
9 |
| · Packing group
· DOT, ADR, IMDG, IATA | III |
| · Environmental hazards:
· Marine pollutant:
· Special marking (ADR):
· Special marking (IATA): | Product contains environmentally hazardous substances:
TRIPHENYL PHOSPHATE
Symbol (fish and tree)
Symbol (fish and tree)
Symbol (fish and tree) |
| · Special precautions for user
· Danger code (Kemler):
· EMS Number: | Warning: Miscellaneous dangerous substances and articles
90
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 phosphite), 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-phrase(s) are those of the ingredient(s) and do(es) NOT represent the classification of the preparation.

· Department issuing MSDS:

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 Parkstraße 29 Fax: +49 - 2151 - 652086-9
 D-47829 Krefeld
 Germany*

· 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*

· * Data compared to the previous version altered.

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