

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.02.2013

Revision: 07.02.2013


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


- **Date of issue:** 19.11.2009
- **1.1 Product identifier**
- **Trade name:** P400 SR Soluble Support Material
- **1.2 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
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Stratasys, Inc. Tel +1 952 937 3000
7665 Commerce Way Fax +1 952 937 0070
Eden Prairie, MN 55344
USA


- **In Europe:**

C.S.B. GmbH Tel.: +49-2151-6520860
Parkstraße 29 Fax: +49-2151-6520869
D-47829 Krefeld E-Mail: info@csb-online.de
Germany
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:** As above or next toxicological information centre

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  **GHS09 environment**

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **N; Dangerous for the environment**

R51/53: 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.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  **GHS09**
- **Signal word** *Void*
- **Hazard statements**
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.

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- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

| | | |
|--------------------------------------|---|---------|
| CAS: 115-86-6 EINECS: 204-112-2 | Triphenyl phosphate N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302 | 2.5-10% |
| CAS: 65652-41-7 EINECS: 265-859-8 | Di-tert-butylphenyl phenyl phosphate Xi R38 Skin Irrit. 2, H315 | < 2.5% |

- **Other components:** Thermoplastic acrylic copolymer

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **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 doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Oxides of phosphorus (P_xO_y)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

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 · **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

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

Avoid causing dust.
Do not breathe dust.
Avoid contact with eyes.

 · **6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.

 · **6.3 Methods and material for containment and cleaning up:**

Collect mechanically.
Dispose of the material collected according to regulations.

 · **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

 · **7.1 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.

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

 · **Storage**

 · **Requirements to be met by storerooms and containers:**

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 containers.
Store container in a well ventilated position.

 · **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

 · **Additional information about design of technical systems:** No further data; see item 7.

 · **8.1 Control parameters**

 · **Components with critical values that require monitoring at the workplace:**

Observe all workplace limits for dust.

115-86-6 Triphenyl phosphate

| | |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 6 mg/m ³ Long-term value: 3 mg/m ³ |
|---------------------|---|

 · **Additional information:** The lists that were valid during the compilation were used as basis.

 · **8.2 Exposure controls**

 · **Personal protective equipment**

 · **General protective and hygienic measures**

Do not inhale dust / smoke / mist.
Avoid contact with the eyes.

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Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· **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.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: solid
Colour: dark brown

· **Smell:** acidic

· **Odour 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

· **Inflammability (solid, gaseous)** not determined

· **Ignition temperature:** not determined

· **Decomposition temperature:** not determined

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

Lower: not determined

Upper: not determined

· **Oxidizing properties** not applicable

· **Vapor pressure:** not determined

· **Density at 20°C:** 1.25 g/cm³

· **Solubility in / Miscibility with**

Water: insoluble

· **Viscosity:**

dynamic: not applicable

kinematic: not applicable

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity**

· **10.2 Chemical stability**

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

Temperature over 300°C

No decomposition if used and stored according to specifications.

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- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - Strong oxidizing agents
 - Alkaline materials
- **10.6 Hazardous decomposition products:**
 - Phosphorus oxides (e.g. P_2O_5)
 - Carbon monoxide (CO) and Carbon dioxide (CO_2)

SECTION 11: Toxicological information

- **11.1 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 effect 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.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

115-86-6 Triphenyl phosphate

| | |
|-----------|--|
| EC50/48 h | 1.35 mg/l (water flea (daphnia magna)) |
|-----------|--|

| | |
|-----------|---|
| LC50/96 h | 0.36 mg/l (rainbow trout (oncorhynchus mykiss)) |
|-----------|---|

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

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

| | |
|---|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN3077 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate) |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· Class 9 (M7) Miscellaneous dangerous substances and articles. · Label 9</p> |
| <ul style="list-style-type: none"> · IMDG, IATA | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· Class 9 Miscellaneous dangerous substances and articles. · Label 9</p> |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | III |
| <ul style="list-style-type: none"> · 14.5 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) |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: | Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F |
| <ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| <ul style="list-style-type: none"> · Transport/Additional information: | <hr style="border-top: 1px dashed #000;"/> <ul style="list-style-type: none"> · ADR · Excepted quantities (EQ): · Limited quantities (LQ): · Transport category: |

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| | |
|-----------------------------------|---|
| · Tunnel restriction code: | E |
| · UN "Model Regulation": | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triphenyl phosphate), 9, III |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:**
Quantity limits according to "EC Seveso directive" should be observed.
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they 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.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:**
C.S.B. GmbH Phone: +49 - 2151 - 652086-0
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
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**

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