

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2013

Reviewed on 02/06/2013

1 Identification of the substance/mixture and of the company/undertaking
· Product identifier
· Trade name: PC Support (PC S)

· Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.

· Application of the substance / the preparation Filament for Stratasys® Inc. FDM™ modeler

· 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

For information in Europe contact:

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 Düsseldorf StraÙe 113
 D-47809 Krefeld
 Germany

Tel.: +49-2151-6520860
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 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 Void

· Classification system:

The product does not have 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

· Additional information: Void

· Classification system

· NFPA ratings (scale 0-4)



Health = 0
 Fire = 1
 Reactivity = 0

· HMIS


HEALTH 0 Health = 0
 FIRE 1 Fire = 1
 REACTIVITY 0 Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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3 Composition/information on ingredients

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

- **Dangerous components:**

13463-67-7	Titanium(IV)-oxide	5-10%
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4 First aid measures

- **Description of first aid measures**
- **General information** *Remove contaminated clothing.*
- **After inhalation**
Unlikely route of exposure
After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
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**
Carbon monoxide and carbon dioxide
Hydrocarbons
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Do not breathe dust.
Avoid contact with eyes.
- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose of the collected material according to regulations.

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- **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.
 Avoid contact with hot product.
 Make sure that all applicable workplace limits are observed.
- **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 receptacle in a well ventilated area.
 Store in cool, dry conditions in well sealed receptacles.
 Maximum storage temperature: < 60 °C
- **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

13463-67-7 Titanium(IV)-oxide

PEL	15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	10 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.
- **Protection of hands:**
 No chemical-protective gloves required.
 Use heat resistant gloves when handling hot/molten product.
- **Eye protection:** Safety glasses

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· **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:	<i>solid</i>
· Color:	<i>White</i>
· Odor:	<i>weak/faint</i>
· Odor threshold:	<i>no data available</i>

· **pH-value:** *Not applicable*

· **Change in condition**

· Melting point/Melting range:	<i>Not applicable</i>
· Boiling point/Boiling range:	<i>Not applicable</i>

· **Flash point:** *Not applicable*

· **Flammability (solid, gaseous)** *combustible*

· **Ignition temperature:** *490 °C (914 °F)*

· **Auto igniting:** *Product is not selfigniting.*

· **Danger of explosion:** *Product does not present an explosion hazard.*

· **Explosion limits:**

· Lower:	<i>Not determined</i>
· Upper:	<i>Not determined</i>

· **Oxidizing properties** *Not applicable*

· **Vapor pressure:** *negligible*

· **Density at 20 °C (68 °F):** *1.1 g/cm³ (9.18 lbs/gal)*

· **Relative density at 20 °C (68 °F)** *1.1 (H₂O = 1)*

· **Vapour density (AIR = 1)** *Not determined*

· **Evaporation rate** *negligible*

· **Solubility in / Miscibility with**

· **Water:** *Insoluble*

· **Partition coefficient (n-octanol/water):** *Not determined*

· **Viscosity:**

· **dynamic:** *Not applicable*

· **kinematic:** *Not applicable*

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

10 Stability and reactivity

· **Reactivity** *see 10.3*

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** *Temperature over 400 °C*

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

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

· **Incompatible materials:**

· *Strong oxidizing agents*

· *Strong acids*

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- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrocarbons

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
estimated

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 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)**

9003-55-8	Butadiene-styrene copolymer	3
13463-67-7	Titanium(IV)-oxide	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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 1 (Self-assessment) (German regulation): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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.

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14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	Void
· UN proper shipping name · DOT, IMDG, IATA · ADR	Void Void Void
· Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

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)**

9003-55-8 Butadiene-styrene copolymer

13463-67-7 Titanium(IV)-oxide

 · **Carcinogenicity categories**

 · **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

 · **National regulations**

 · **Disturbance regulations:** Directive 96/82/EC does not apply.

 · **Water hazard class:**

Water hazard class 1 (Self-assessment) (German regulation): slightly 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.

 · **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)

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109343-0001 (A)

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LD50: Lethal dose, 50 percent

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