

Reviewed on 02/04/2013 Printing date 02/04/2013

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

- · Product identifier
- · Trade name: PC10 Model
- 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. FDMTM 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:

C.S.B. GmbH Düsseldorfer Straße 113 D-47809 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 Void
- · 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 = 0Fire = 0Reactivity = 0

· HMIS



· Other hazards

Health = 0Fire = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)



Printing date 02/04/2013 Reviewed on 02/04/2013

Trade name: PC10 Model

(Contd. of page 1)

· Dangerous components: Void

· Other components:

111211-39-3 Polycarbonate

> 95%

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 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.

· Reference to other sections

See Section 8 for information on personal protection equipment.

(Contd. on page 3)

US/



Printing date 02/04/2013 Reviewed on 02/04/2013

Trade name: PC10 Model

(Contd. of page 2)

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

- · 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:

Use breathing protection in case of dust formation.

Dust proof mask - particle filter mask filter

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.

(Contd. on page 4)



Printing date 02/04/2013 Reviewed on 02/04/2013

Trade name: PC10 Model

(Contd. of page 3)

	(Conta. or pe
Physical and chemical proper	ties
* * *	
Information on basic physical and o	chemical properties
General Information Appearance:	
Form:	solid
Color:	Different according to coloring
· Odor:	Nearly odorless
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:	Not applicable
· Flammability (solid, gaseous)	Product is not flammable.
· Ignition temperature:	630 °C (1166 °F)
· 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:	Not determined
Relative density at 20 °C (68 °F)	$1.2 (H_2O = 1)$
Vapour density (AIR = 1)	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with	
Water:	Insoluble
Partition coefficient (n-octanol/wat	er): 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

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrocarbons

Possible in traces.

(Contd. on page 5)



Printing date 02/04/2013 Reviewed on 02/04/2013

Trade name: PC10 Model

Phenols

(Contd. of page 4)

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)

None of the ingredients is listed.

· 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.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA

Void

(Contd. on page 6)

USA



Printing date 02/04/2013 Reviewed on 02/04/2013

Trade name: PC10 Model

	(Contd. of page
· UN proper shipping name	
· DOT, IMDG, IATA	Void
$\cdot ADR$	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)

None of the ingredients is listed.

- · Cancerogenity 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

USA