

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

- **Product identifier**

- **Trade name:** PC-ISO Model

- **CAS Number:**

111211-39-3

- **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:

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](mailto:info@csb-online.de)

- **Information department:** Product safety department.

- **Emergency telephone number:** see above

## 2 Hazards identification

- **Classification of the substance or mixture**

The substance 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 = 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: Substances**
- **CAS No. Description:**  
111211-39-3 Polycarbonate
- **Identification number(s):** void, polymer

### 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.  
Do not induce vomiting!  
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**  
CO<sub>2</sub>, 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**  
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.  
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/m<sup>3</sup> OSHA  
TLV respirable dust: 5 mg/m<sup>3</sup> 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:**  
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.

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### 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· <b>Form:</b>	<i>solid</i>
· <b>Color:</b>	<i>Different according to coloring</i>
· <b>Odor:</b>	<i>Nearly odorless</i>
· <b>Odor threshold:</b>	<i>no data available</i>

· **pH-value:** *Not applicable*

· **Change in condition**

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

· **Flash point:** *Not applicable*

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

· **Ignition temperature:** *630 °C (1166 °F)*

· **Decomposition temperature:** *Not determined*

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

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

· **Explosion limits:**

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

· **Oxidizing properties** *Not applicable*

· **Vapor pressure:** *negligible*

· **Density at 20 °C (68 °F):** *1.2 g/cm<sup>3</sup> (10.014 lbs/gal)*

· **Relative density at 20 °C (68 °F)** *1.2 (H<sub>2</sub>O = 1)*

· **Evaporation rate** *Not determined*

· **Solubility in / Miscibility with**

· **Water:** *Insoluble*

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

· **Viscosity:**

· <b>dynamic:</b>	<i>Not applicable</i>
· <b>kinematic:</b>	<i>Not applicable</i>

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

### 10 Stability and reactivity

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

· **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.*

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### 11 Toxicological information

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

Dermal	LD50	> 2000 mg/kg (rabbit)
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- **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)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not 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

- |                                  |      |
|----------------------------------|------|
| · <b>UN-Number</b>               |      |
| · <b>DOT, ADR, IMDG, IATA</b>    | Void |
| · <b>UN proper shipping name</b> |      |
| · <b>DOT, IMDG, IATA</b>         | Void |

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

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

· **TSCA (Toxic Substances Control Act)**

Substance is not listed.

· **Carcinogenicity categories**

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

Substance is not 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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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