

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:

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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 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**
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**
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/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:**
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:	
· Form:	<i>solid</i>
· Color:	<i>Different according to coloring</i>
· Odor:	<i>Nearly odorless</i>
· Odor threshold:	<i>no data available</i>
· pH-value:	<i>Not applicable</i>
· Change in condition	
· Melting point/Melting range:	<i>Not applicable</i>
· Boiling point/Boiling range:	<i>Not applicable</i>
· Flash point:	<i>Not applicable</i>
· Flammability (solid, gaseous)	<i>combustible</i>
· Ignition temperature:	<i>630 °C (1166 °F)</i>
· Decomposition temperature:	<i>Not determined</i>
· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Explosion limits:	
· Lower:	<i>Not determined</i>
· Upper:	<i>Not determined</i>
· Oxidizing properties	<i>Not applicable</i>
· Vapor pressure:	<i>negligible</i>
· Density at 20 °C (68 °F):	<i>1.2 g/cm³ (10.014 lbs/gal)</i>
· Relative density at 20 °C (68 °F)	<i>1.2 (H₂O = 1)</i>
· Evaporation rate	<i>Not determined</i>
· Solubility in / Miscibility with	
· Water:	<i>Insoluble</i>
· Partition coefficient (n-octanol/water): <i>Not determined</i>	
· Viscosity:	
· dynamic:	<i>Not applicable</i>
· kinematic:	<i>Not applicable</i>
· Other information	<i>No further relevant information available.</i>

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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Phenols

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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

- | | |
|----------------------------------|------|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | Void |

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· 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)**

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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