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
  - For information in Europe contact:
  - C.S.B. GmbH
  - Düsseldorfer Straße 113
  - D-47809 Krefeld
  - Germany
  - **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
  - Fire = 1
  - Reactivity = 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPoB:** Not applicable.
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 respirator protection 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.
Trade name: PC-ISO Model

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.
## 9 Physical and chemical properties

- **Information on basic physical and 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):** 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:**
    - **Lower:** Not determined
    - **Upper:** Not determined
  - **Oxidizing properties:** Not applicable
  - **Vapor pressure:** negligible
  - **Density at 20 °C (68 °F):** 1.2 g/cm³ (10.014 lbs/gal)
  - **Relative density at 20 °C (68 °F):** 1.2 (H₂O = 1)
  - **Evaporation rate:** Not determined
  - **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:** 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.
11 Toxicological information

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

- **Cancerogenity 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