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

- **Product identifier**
  - Trade name: ULTEM® 9085 Model
  - CAS Number: 61128-46-9

- **Relevant identified uses of the substance or mixture and uses advised against**
  - 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

  In Europe:
  C.S.B. GmbH
  Parkstraße 29
  D-47829 Krefeld
  Germany

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

  - **Emergency telephone number:** see above

2 Hazards identification

- **Classification of the substance or mixture**

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  Void

- **Label elements**
  - **Observe the general safety regulations when handling chemicals**

- **Classification system**
  - **NFPA ratings (scale 0-4)**
    - Health = 0
    - Fire = 0
    - Reactivity = 0
  - **HMIS**
    - Health = 0
    - Fire = 0
    - Reactivity = 0

- **Other hazards** Void

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

3 Composition/information on ingredients

- **Chemical characterization: Substances**
  - CAS No. Description:
    - 61128-46-9 polyetherimide

(Contd. on page 2)
Trade name: ULTEM® 9085 Model

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
    Wash with soap and water.
    If skin irritation continues, consult a doctor.
    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
    Water haze
    Water spray
  - For safety reasons unsuitable extinguishing agents
    Carbon dioxide
    Extinguishing powder.
    Lack of cooling capacity may permit re-ignition.
- Special hazards arising from the substance or mixture
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides (NOx)
  - Burning produces harmful and toxic fumes.
  - 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
  - Ensure adequate ventilation
  - Avoid formation of dust.
  - Keep away from ignition sources
  - Do not breathe dust.
  - Avoid contact with skin and eyes.
- Environmental precautions: Do not allow product to reach sewage system or any water course.
Trade name: ULTEM® 9085 Model

- Methods and material for containment and cleaning up:
  Ensure adequate ventilation.
  Pick up mechanically.
  Send for recovery or disposal in suitable receptacles.
- 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 prolonged or repeated skin contact.
  Avoid contact with eyes.
  Make sure that all applicable workplace limits are observed.
  Avoid contact with hot product.
- Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
  Protect from heat.
  Protect against electrostatic charges.
- 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 in cool, dry conditions in well sealed receptacles.
  Protect from heat and direct sunlight.
  Store receptacle in a well ventilated area.
- 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
  Keep away from foodstuffs, beverages and feed.
  Do not eat, drink, smoke or sniff while working.
  Do not breathe dust.
  Avoid close or long term contact with the skin.
  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.

(Contd. on page 4)
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: no data available
- Flash point: no data available
- Flammability (solid, gaseous) no data available
- Ignition temperature:
  - Decomposition temperature: no data available
  - 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 g/cm³ (> 8.345 lbs/gal)
- Solubility in / Miscibility with
  - Water: Insoluble
- Viscosity:
  - dynamic: Not applicable
  - kinematic: Not applicable
- Other information No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  - Avoid impact, friction, heat, sparks, electrostatic charges.
  - To avoid thermal decomposition do not overheat.
  - Temperature over 300 °C
- Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
Trade name: ULTEM® 9085 Model

- Incompatible materials: Alkaline materials
- Hazardous decomposition products:
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides (NOx)
  - Hydrocarbons

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - 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.
  - Degree of elimination: No data 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.
    Do not allow product to reach ground water, water course or sewage system.
  - 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.

(Contd. on page 6)
14 Transport information

- **UN-Number**
  - DOT, ADR, ADN, IMDG, IATA
  - Void

- **UN proper shipping name**
  - DOT, ADN, IMDG, IATA
  - Void
  - ADR
  - Void

- **Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA
  - Class
  - Void

- **Packing group**
  - DOT, ADR, ADN, IMDG, IATA
  - Void

- **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.

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 listed.

- **Cancerogenity categories**

  - **MAK (German Maximum Workplace Concentration)**
    - Substance is not listed.

  - **Markings according to EU guidelines:**
    - The product has not to be classified and labelled in accordance with EC Directives / relevant national laws.
    - Observe the general safety regulations when handling chemicals.

- **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.

- **Department issuing MSDS:**
  - C.S.B. GmbH
  - Parkstraße 29
  - D-47829 Krefeld
  - Germany
  - Phone: +49 - 2151 - 652086-0
  - Fax: +49 - 2151 - 652086-9