

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 08/06/2013

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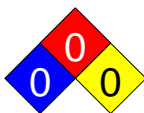

1 Identification of the substance/mixture and of the company/undertaking

- **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. Tel +1 952 937 3000
7665 Commerce Way Fax +1 952 937 0070
Eden Prairie, MN 55344
USA

- **In Europe:**

C.S.B. GmbH Tel.: +49-2151-6520860
Parkstraße 29 Fax: +49-2151-6520869
D-47829 Krefeld E-Mail: info@csb-online.de
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**
- **Labelling 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
- **Classification system**
- **NFPA ratings (scale 0-4)**
 Health = 0
Fire = 0
Reactivity = 0
- **HMIS**
 HEALTH 0 Health = 0
FIRE 0 Fire = 0
REACTIVITY 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

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USA

Trade name: ULTEM® 9085 Model· **Identification number(s):** void, polymer

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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 (NO_x)

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.

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Trade name: ULTEM® 9085 Model

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- **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.

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- **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: 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.

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- **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.

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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, IMDG, IATA | Void |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL 73/78 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:**
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