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Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SSYS Part Number 400642-0002

Product name **ULTEM™ 1010 Support Material**

Synonyms Polyethersulfone (PES)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Additive manufacturing

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Supplier
Stratasys GMBH	Stratasys Inc
Simon Hegele	7665 Commerce Way
Gesellschaft für Logistik und Service mbH	Eden Prairie, MN
Tejostraße 1-9 (Unit 5, Gate 67)	55344
65479 Raunheim	TEL: 1(952) 937 3000
Germany	
TEL: +49 722 977720	

For further information, please contact

E-mail address objet-info@stratasys.com

1.4. Emergency telephone numberEmergency Telephone Number 1(952) 937 3000
+49 722 97772280 - Europe - Multi lingual response
+49 722 97772281 - Global - English language response

Europe	112
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Section 2. Hazards identification**2.1. - Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Physical hazards

none

2.2. Label elements

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Signal Word none

2.3. Other information

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

3.2. Mixtures

Chemical nature of the preparation The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directives.

Chemical Name	EC-No	CAS-No	Weight percent	EU - GHS Substance Classification	REACH No.
Polyether-sulphone	-	25667-42-9	>80		no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	Wash off with water. If molten polymer contacts the skin, cool rapidly with cold water. Do not attempt to peel cured polymer from skin. Removal of solidified molten material from skin requires medical assistance.
Ingestion	Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water. Dry powder. Foam. Carbon dioxide (CO₂).

Extinguishing Media Which Must not be Used for Safety Reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards Arising from the Substance or Preparation Itself, Combustion Products, Resulting Gases

Burning produces noxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO₂). Sulphur oxides. Formaldehyde.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practise. Wear personal protective equipment. Ensure adequate ventilation. Prevent contact with molten product. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practise.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

7.3. Specific end uses

Exposure scenario

No information available

Other Guidelines

No information available

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection

Safety glasses with side-shields. For handling molten material, use of a faceshield is recommended.

Skin and body protection

No protective equipment is needed under normal use conditions.

Hand protection

When handling hot material, use heat resistant gloves.

Respiratory protection

No protective equipment is needed under normal use conditions.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Solid (compressed)	Appearance	natural colour
Odour	none		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	no data available	None known
Melting point/range	no data available	None known
Boiling point/boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Vapour pressure	no data available	None known
Vapour density	no data available	None known
Relative density	no data available	None known
Water solubility	no data available	None known
Solubility in other solvents	no data available	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Viscosity	no data available	None known
Explosive properties	no data available	
Oxidising properties	no data available	

9.2. Other information

VOC Content (%)	No information available
Flammability Limits in Air	no data available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Incompatible products.

Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

Carbon oxides. Aldehydes. Ketones. Organic acids. Sulphur oxides.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity**Product Information****Inhalation****Eye contact****Skin contact****Ingestion**

Exposure to volatiles released during hot processing may cause respiratory tract irritation.
 Contact with eyes may cause irritation.
 Contact with molten material will cause thermal burns.
 Not an expected route of exposure. Ingestion may cause stomach discomfort.

Sensitisation**Mutagenic effects****Carcinogenic effects**

No information available.
 No information available.
 No information available.

Reproductive toxicity**Developmental Toxicity****Specific target organ systemic toxicity (single exposure)****Specific target organ systemic toxicity (repeated exposure)****Target Organ Effects****Aspiration hazard**

No information available.
 No information available.
 No information available.
 No information available.
 Eyes. Skin.
 No information available.

Section 12. Ecological information

12.1. Toxicity**Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors

Section 13. Disposal considerations

13.1. Waste treatment methods**Waste from residues / unused products**

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard class	not regulated.
14.4. Packing group	not regulated.
Description	Not applicable.
14.5. Marine pollutant	None.
14.6. Special Provisions	none.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1. UN-Number	not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard class	not regulated.
14.4. Packing group	not regulated.
Description	Not applicable
14.5. Environmental hazard.	None
14.6. Special Provisions	none.

ADR

14.1. UN-Number	not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard class	Not regulated.
14.4. Packing group	not regulated.
Description	Not applicable
14.5. Environmental hazard.	None
14.6. Special Provisions	None

ICAO

14.1. UN-Number	not regulated.
14.2. Proper shipping name	not regulated.
14.3. Hazard class	not regulated.
14.4. Packing group	not regulated.
Description	Not applicable
14.5. Environmental hazard.	None
14.6. Special Provisions	None

IATA

14.1. UN-Number	not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard class	not regulated.
14.4. Packing group	not regulated.
Description	Not applicable
14.5. Environmental hazard.	None
14.6. Special Provisions	None

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA	Complies
EINECS/ELINCS	not determined
DSL/NDSL	not determined
PICCS	Complies
ENCS	not determined
IECSC	Complies
AICS	Complies
KECL	not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information**Key literature references and sources for data**

www.ChemADVISOR.com/

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet