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Revision Number A

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

SSYS Part Number 400621-0002

Product name **FDM™ Nylon 12 Model Material**

Synonyms Polyamide 12

### 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 number

Emergency 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** Contains no hazardous ingredients according to GHS.

**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

<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin contact</b>	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.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.
<b>Inhalation</b>	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 (CO<sub>2</sub>).

**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 (CO<sub>2</sub>). Hydrogen cyanide. Nitrogen oxides (NO<sub>x</sub>).

#### 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.

<b>Hand protection</b>	When handling hot material, use heat resistant gloves.
<b>Respiratory protection</b>	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

<b>Physical State</b>	Solid (compressed)	<b>Appearance</b>	Various
<b>Odour</b>	none		

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

### 9.2. Other information

<b>VOC Content (%)</b>	No information available
<b>Flammability Limits in Air</b>	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. Hydrogen cyanide. Nitrogen oxides (NO<sub>x</sub>).

## Section 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product Information

##### Inhalation

Exposure to volatiles released during hot processing may cause respiratory tract irritation.

##### Eye contact

Contact with eyes may cause irritation.

##### Skin contact

Contact with molten material will cause thermal burns.

##### Ingestion

Not an expected route of exposure. Ingestion may cause stomach discomfort.

#### Sensitisation

No information available.

#### Mutagenic effects

No information available.

#### Carcinogenic effects

No information available.

#### Reproductive toxicity

No information available.

#### Developmental Toxicity

No information available.

#### Specific target organ systemic toxicity (single exposure)

No information available.

#### Specific target organ systemic toxicity (repeated exposure)

No information available.

##### Target Organ Effects

Eyes. Skin.

#### Aspiration hazard

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

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	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	not determined
ENCS	Complies
IECSC	not determined
AICS	Complies
KECL	Complies

#### 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/](http://www.ChemADVISOR.com/)

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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

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**End of Safety Data Sheet**