

Issuing date 20-Nov-2015

Revision Date 20-Nov-2015

Revision Number A

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

SSYS Part Number 400623-0002

Product name P400™ ABS / P500™ ABS Model Material

Synonyms ABS

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 Name	EC-No	CAS-No	Weight percent	EU - GHS Substance Classification	REACH No.
ABS resin	-	9003-56-9	>96		no data available
Colourants	-	-	<4		no data available

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

Note

Only non-hazardous and/or USP Class VI colourants are used. No leachable/extractable or heavy metal colourants are used. Some of the colourants, such as titanium dioxide and carbon black, have dust hazards. These hazards are not germane as the colourants are encapsulated in a fully reacted polymer.

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. Aldehydes. Carbon monoxide. Carbon dioxide (CO₂). Hydrogen cyanide.

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.

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	Various
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. Hydrogen cyanide.

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

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	not determined
ENCS	not determined
IECSC	not determined
AICS	not determined
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/

Issuing date	20-Nov-2015
Revision Date	20-Nov-2015
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