

SAFETY DATA SHEET

Issuing Date 11-Nov-2015 Revision Date 11-Nov-2015 Revision Number 0

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ABS-ESD7™ Model Material

Synonyms ABS

SSYS Part Number 400616-0001

Recommended Use Additive manufacturing

Company No information available.

Importer Stratasys Korea Limited

c/o Expeditors Korea Ltd., KMTC

6-1 gate, Gimpo Int'l airport Cargo Terminal

Seoul 157-240 Korea, Republic of Contact: Ms Sarah Chae TEL: +82-2-20462239

Supplier Stratasys Inc

7665 Commerce Way Eden Prairie, MN

55344

TEL: 1(952) 937 3000

Emergency Telephone

Number

1(952) 937 3000 +82-1090102285

+49 722 97772281 - Global - English language response +85 2 975 70887 - Asia Pacific - Multi lingual response

E-mail Address objet-info@stratasys.com

SECTION 2. HAZARDS IDENTIFICATION

GHS-Classification

Health Hazard

This mixture is not classified as dangerous according to Korean legislation

Physical Hazards

None

Environmental Hazards

GHS Label elements, including precautionary statements

Signal Word None

Precautionary Statements

Other hazards which do not result in classification

· No information available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
ABS resin	9003-56-9	>96
Colorants	-	<4

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

SECTION 4. FIRST AID MEASURES

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a A. Eye Contact

physician.

B. 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.

C. Inhalation Move to fresh air. If symptoms persist, call a physician.

D. Ingestion Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

E. Most Important Symptoms/Effects No information available.

F. Indication of immediate medical Treat symptomatically. attention and special treatment

needed, if necessary.

SECTION 5. FIRE-FIGHTING MEASURES

A. Suitable Extinguishing Media Water. Dry powder. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media No information available.

Burning produces obnoxious and toxic fumes. Aldehydes. Carbon B. Specific Hazards Arising from the Chemical

monoxide. Carbon dioxide (CO2). Hydrogen cyanide.

C. Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

A. Personal Precautions Use personal protective equipment. Ensure adequate ventilation.

B. Environmental Precautions Prevent further leakage or spillage if safe to do so.

C. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

A. Handling Handle in accordance with good industrial hygiene and safety practice. 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.

B. Storage Keep tightly closed in a dry and cool place.

Incompatible Products Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A. Exposure Guidelines

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

B. Engineering Measures

Ensure adequate ventilation, especially in confined areas.

C. Personal Protective Equipment

Respiratory Protection No protective equipment is needed under normal use conditions.

Eye/Face Protection Safety glasses with side-shields. For handling molten material, use of a faceshield is

recommended.

Hand Protection When handling hot material, use heat resistant gloves.

Skin and Body ProtectionNo protective equipment is needed under normal use conditions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance Black

Physical State Solid (compressed)

B. Odor None

C. Odor Threshold
 D. pH
 No data available
 No data available
 Melting Point/Range
 No data available
 Initial Boiling Point
 Boiling Point/Boiling Range
 No data available
 No data available

Boiling Point/Boiling Range

G. Flash Point

H. Evaporation Rate

I. Flammable Properties

No data available
No data available
Not applicable

J. Flammability Limits in Air Upper No data available Lower No data available

K. Vapor Pressure

No data available.
No information available.

M. Vapor Density
No data available.
N. Relative density
No data available
O. Partition Coefficient: n-octanol/water
No data available.
No data available.
No data available

Q. Decomposition Temperature
 R. Viscosity
 No data available
 VOC Content (%)

SECTION 10. STABILITY AND REACTIVITY

A. Stability Stable under normal conditions.

B. Hazardous Reactions

None under normal processing.

C. Conditions to Avoid Incompatible products.

D. Incompatible Products Strong oxidizing agents.

E. Hazardous Decomposition Products

Carbon oxides. Aldehydes. Hydrogen cyanide.

SECTION 11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

Inhalation Exposure to volatiles released during hot processing may cause

respiratory tract irritation

Eye Contact Contact with eyes may cause irritation.

Skin ContactContact with molten material will cause thermal burns.IngestionNot an expected route of exposure. Ingestion may cause

stomach discomfort.

B. Delayed and immediate effects and also chronic effects from short and long term exposure

No information available. Irritation Corrosivity No information available. Sensitization No information available. **Carcinogenic Effects** No information available. **Mutagenic Effects** No information available. **Reproductive Toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

Target Organ Effects Eyes. Skin.

Hazardous to the Aquatic Environment

Aspiration Hazard

No information available.

No information available.

C. Numerical measures of toxicity

Product Information

LD50 Oral No information available.
LD50 Dermal No information available.

Inhalation

GasNo information available.Dust/MistNo information available.VaporNo information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	IARC
ABS resin	Group 3
9003-56-9 (>96)	

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

SECTION 12. ECOLOGICAL INFORMATION

A. Aquatic and Ecotoxicity

Ecotoxicity EffectsContains no substances known to be hazardous to the environment or not degradable in

waste water treatment plants

B. Persistence and Degradability No information available.

C. Bioaccumulation No information available.

D. Mobility No information available.

E. Other Adverse Effects No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

A. Waste from Residues / Unused Dispose of in accordance with local regulations.

Products

B. Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

SECTION 14. TRANSPORT INFORMATION

A. UN-Number

B. Proper Shipping Name
C. Hazard Class
D. Packing Group
Not regulated.
Not regulated.
Not regulated.
Not regulated.
Not regulated.
Not regulated

SECTION 15. REGULATORY INFORMATION

A. Industrial Safety and Health Law:

Not applicable

B. Toxic Chemicals Control Law

Not applicable

C. Dangerous Material Safety Control

Not applicable

D. Wastes Management

Dispose of in accordance with local regulations

E. Other Regulations

RESTRICTIONS - REACH TITLE VIII No information available.

International Inventories

Complies **TSCA 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

SECTION 16. OTHER INFORMATION

A. Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

B. Issuing Date 11-Nov-2015

C. Revision Date 11-Nov-2015

Revision Number 0

D. Other InformationNo information available

General Disclaimer

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End of Safety Data Sheet