

# SAFETY DATA SHEET

Issuing Date 26-Sep-2021 Revision Date 26-Sep-2021 Revision Number 2.02

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name FDM TPU 92A Black

Other means of identification

Product Code(s) SDS-405377 EN A BLK

PN (Part Number) 333-60201

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Additive manufacturing

Uses advised against No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Stratasys Corporate headquarters United States 9600 West 76th Street Suite #108

Eden Prairie, MN 55344

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Phone: +1 952-937-3000

Emergency telephone number

Emergency Telephone +1 215 207 0061 - Americas - Multi lingual response

E-mail address info@Stratasys.com

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Monofilament Physical state Solid Odor Slight

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#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Not applicable.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

# 4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

Skin contact Wash skin with soap and water when in contact with molten residues.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Call a physician

immediately.

Most important symptoms and effects, both acute and delayed

None known. **Symptoms** 

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Foam. Water. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. **Suitable Extinguishing Media** 

Unsuitable extinguishing media None known.

Specific hazards arising from the

chemical

None known.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Avoid contact with skin and eyes. Remove

all sources of ignition. Sweep up to prevent slipping hazard.

Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Keep out of waterways.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

May form combustible dust concentrations in air if small particles are generated during Prevention of secondary hazards

further processing, handling or by other means. Avoid dust accumulation in enclosed

space. Prevent dust cloud. Remove all sources of ignition.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes, when handling

melted filament. If small particles are generated during further processing, handling, or by

other means, combustible dust concentrations in air may form. Use respirator.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage Conditions** 

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Appropriate engineering controls

**Engineering controls** If dust is generated during further processing provide exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles. Safety glasses with side-shields.

Skin and body protection Impervious clothing.

Respiratory protection Minimize dust generation and accumulation. Wear respiratory protection.

Handle in accordance with good industrial hygiene and safety practice. General hygiene considerations

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

Physical state Solid

**Appearance** Monofilament Odor Slight Black Color

**Odor threshold** No information available

Property Remarks • Method Values

pН No data available None known Melting point / freezing point No data available None known No data available Boiling point / boiling range None known

Flash point >380 °C / °F **Evaporation rate** No data available

None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

**Upper flammability limit:** No data available Lower flammability limit: No data available

Vapor pressure No data available None known None known Vapor density No data available

Relative density 1.1 - 1.2

Water solubility Insoluble in water

Solubility in other solvents No information available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known

**Decomposition temperature** > 350 °C

Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

No information available **Explosive properties** Oxidizing properties No information available

Other information

Softening point No information available No information available Molecular weight

**VOC Content (%)** negligible

**Liquid Density** No information available **Bulk density** No information available

### 10. STABILITY AND REACTIVITY

None under normal use conditions. Reactivity

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Excessive heat. To avoid thermal decomposition, do not overheat.

Oxidizing agent. Strong bases. Incompatible materials

Hazardous decomposition products Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO2).

Aldehydes.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available.

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**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms None known.

Numerical measures of toxicity

**Acute toxicity** 

Unknown acute toxicity No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**The environmental impact of this product has not been fully investigated

Persistence and degradability No information available.

**Bioaccumulation** No information available.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

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### 14. TRANSPORT INFORMATION

DOT Not regulated **TDG** Not regulated MEX Not regulated ICAO (air) Not regulated Not regulated IATA Not regulated IMDG RID Not regulated ADR Not regulated Not regulated ADN

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**International Inventories TSCA** 

Complies **DSL/NDSL** Complies Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

## Legend:

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

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

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazard Categories

Acute health hazard No **Chronic Health Hazard** No No Fire hazard Sudden release of pressure hazard No **Reactive Hazard** No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

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CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form. This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Carbon mesoporous (Bound) - 1333-86-4	Carcinogen	

#### U.S. State Right-to-Know Regulations

#### **US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Carbon mesoporous (Bound)	X	X	X
1333-86-4			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA_	Health hazards 0	Flammability 0	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Revision Date 26-Sep-2021

Revision Note No information available.

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**End of Safety Data Sheet** 

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