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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  
United States  
Local: +1 952-294-3900  
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

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

|          |             |
|----------|-------------|
| Symptoms | None known. |
|----------|-------------|

**Indication of any immediate medical attention and special treatment needed**

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

**5. FIRE-FIGHTING MEASURES**

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

**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.

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

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

## 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.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                |                          |
|----------------|--------------------------|
| Physical state | Solid                    |
| Appearance     | Monofilament             |
| Odor           | Slight                   |
| Color          | Black                    |
| Odor threshold | No information available |

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No data available        | None known              |
| Melting point / freezing point | No data available        | None known              |
| Boiling point / boiling range  | No data available        | 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              |
| Vapor density                  | No data available        | None known              |
| 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              |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |

**Other information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | negligible               |
| Liquid Density   | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY**

|                                    |                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| Reactivity                         | None under normal use conditions.                                                                          |
| Chemical stability                 | Stable under normal conditions.                                                                            |
| Possibility of hazardous reactions | None under normal processing.                                                                              |
| Conditions to avoid                | Excessive heat. To avoid thermal decomposition, do not overheat.                                           |
| Incompatible materials             | Oxidizing agent. Strong bases.                                                                             |
| Hazardous decomposition products   | Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). 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.                                                                                  |

## 14. TRANSPORT INFORMATION

|                   |               |
|-------------------|---------------|
| <u>DOT</u>        | Not regulated |
| <u>TDG</u>        | Not regulated |
| <u>MEX</u>        | Not regulated |
| <u>ICAO (air)</u> | Not regulated |
| <u>IATA</u>       | Not regulated |
| <u>IMDG</u>       | Not regulated |
| <u>RID</u>        | Not regulated |
| <u>ADR</u>        | Not regulated |
| <u>ADN</u>        | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|         |          |
|---------|----------|
| TSCA    | Complies |
| DSL/NDL | Complies |
| ENCS    | Complies |
| IECSC   | Complies |
| KECL    | Complies |
| PICCS   | Complies |
| AICS    | Complies |

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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 |
| Fire hazard                       | No |
| 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

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)<br>1333-86-4 | X          | X             | X            |

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

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

|                    |                  |                |                    |                       |
|--------------------|------------------|----------------|--------------------|-----------------------|
| <b><u>NFPA</u></b> | Health hazards 0 | Flammability 0 | Instability 0      | Special hazards -     |
| <b><u>HMIS</u></b> | 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**