

Safety Data Sheet

In accordance with 29 CFR 1910.1200, ANSI Z400.1-2004, and ISO 11014-1: 1994.

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

Product Name: 3D-Fuel Workday ABS **Product Code:** Workday ABS
Product Use: A monofilament for 3D printing **Product Description:** Recyclable Polymer Filament
Chemical: Thermoplastic. Acrylonitrile, 1, 3 Butadiene, and Styrene Copolymer.

Supplier: 3DomFuel Inc., 2222 7th Ave N, Fargo, ND, 58102 United States
Customer Information Center: (844) 333-3616 / sales@3dfuel.com

2. HAZARDS IDENTIFICATION

Threshold Limit: Not established

Effect of overexposure:

- Eye Contact Solid or dust may cause irritation or corneal injury due to mechanical action.
- Skin Contact Essentially nonirritating to skin, mechanical injury only.
- Skin Absorption Unlikely due to physical properties.
- Ingestion Unlikely due to physical state.
- Inhalation Dust may cause irritation to respiratory system. If breathing in fumes released from heated material, respiratory irritation may occur.
- Chronic Effects Not Available
- Mutagenicity Not Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: ABS (Acrylonitrile-Butadiene-Styrene)

CAS Number: 9003-56-9
Weight: 95% - 100%
Typical Stabilizer: 0 - 3%
Typical lubricants: 0 - 3%
Form: Filament
Odor: Light/toxic. Requires ventilation.

4. FIRST AID MESAURES

Emergency Telephone Numbers: (844) 333-3616
Transportation Information Chemtrec: (844) 333-3616

General Information: The most likely hazard arise from burns by molten material. Apply copious amounts of cold water and seek medical attention.

Inhalation: If melt fumes are inhaled move to fresh air and seek medical attention.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

The information herein is given in good faith, but no warranty, express or implied, is made. Consult the company for further information.

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NOTIC REGARDING MEDICAL APPLICATION RESTRICTIONS: The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.



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Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If vomiting occurs, lower the head to ease vomiting. Call a physician immediately.

Inhalation: In case of breathing fumes released from heated material, respiratory irritation may occur. In case of inhaling dense smoke, immediately seek fresh air. If necessary, apply artificial respiration and seek medical attention immediately.

Mutagenicity: Not Available

5. FIRE FIGHTING MEASURES

Auto-ignition Temperature: Not applicable. No Flash Point noted.

Explosion Hazards: Irritating gases and dense smoke.

Suitable Extinguishing Media: Use water and extinguishing media appropriate for surrounding conditions.

Non-suitable Extinguishing Media: None known.

Under fire conditions: Cool with water spray. In closed stores, provide fire-fighter with self-contained breathing apparatus in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Bits of filament may present a slipping hazard.

Environmental Precautions: Keep out of irrigation ditches, sewers, and water supplies. Spills should be collected to prevent contamination of waterways.

Methods for Cleaning Up: Clean up promptly by scoop or vacuum. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling: Avoid formation of dust. Keep filament in bag or otherwise encased. Keep container closed. Avoid wetness on or around filament.

Storage: Keep filament in a well-ventilated and dry place. Avoid wetness on or around filament.

Precautions: No special precautions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Personal Protective Equipment:

- Eye / Face Protection Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.
- Skin Protection No precautions other than clean body-covering clothing should be needed.
- Respiratory Protection For most conditions, no respiratory protection should be needed. However, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. In dusty atmospheres, use an approved use an approved dust respirator.
- Exposure Guidelines Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:	Pigmented solid material (filament)
Odor:	Almost odorless.
Vapor Pressure:	Not applicable at standard condition
Vapor Density:	Not applicable at standard condition
Explosiveness:	Not applicable (but avoid dust generation)
Boiling Point:	Not applicable
Evaporation Rate:	Not applicable at standard condition
Specific Gravity:	1.05
Solubility in Water:	Insoluble
pH:	Neutral

10. STABILITY AND REACTIVITY

Incompatibility:	None known.
Chemical stability:	Stable under recommended storage conditions
Conditions to Avoid:	Avoid fire and heating above 60°C (140°F)
Hazardous decomposition products:	Not applicable
Hazardous polymerization:	Does not occur

11. TOXICOLOGICAL INFORMATION

See Section 3 for potential health effects. For detailed toxicological data, write or call the address or phone number shown in Section 1.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be acutely toxic, but filament, if ingested by waterfowl or aquatic life, may cause adverse effects.

Environmental Fate:

- Movement/Partitioning No bio-concentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.
- Degradation/Persistence This water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

13. DISPOSAL CONSIDERATIONS

Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with appliance laws are the responsibility solely of the waste generator. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler, reclaim facility, incinerator or other thermal destruction device.

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THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 2 (Composition/Information on Ingredients).

14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations.

15. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements.

U.S. REGULATIONS:

TSCA INVENTORY STATUS	This product complies with the Chemical Substance Inventory requirements of the US EPA TSCA.
CERCLA SECTION 103 (40CFR302.4)	Not Listed
SARA SECTION 313 (40CFR372.65)	Not Listed
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)	
Acute	Not Listed
Chronic	Not Listed
Fire	Not Listed
Reactive	Not Listed
Sudden Release	Not Listed

STATE REGULATIONS:

California Proposition 65	Not Listed
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EUROPEAN REGULATIONS:

EC NUMBER	Not assigned
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This product complies with the requirements of resolution of European Parliament (WE) no. 1907/2006 Dated December 18, 2006, concerning REACH (European Union Official Register L396 with its changes In EU Official Register no. L136).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express, or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

16. OTHER INFORMATION

<u>Label Information:</u>	Workday ABS	<u>Product Code:</u>	Workday ABS
<u>Reason for Revisions:</u>	Not applicable	<u>Prepared by:</u>	3DomFuel Inc.
<u>Print Date:</u>	10-03-2020	<u>Recommended Restrictions:</u>	None
<u>Revision Date:</u>	10-03-2020		

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