



Product Name: 3D-Fuel Buzzed™
Product Code: Buzzed™

Revision Number: 01
Revision Date: 02/01/2016

Print Date: 02/01/2016

Material 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 Buzzed™ **Product Code:** Buzzed™

Product Use: A monofilament designed for 3D printing

Supplier: 3DomFuel, 3041 ½ Main Ave, Fargo, ND, 58103 United States

Customer Information Center: 1-877-336-3097 info@3D-Fuel.com

Emergency Telephone Numbers (24 hours a day): 1-877-336-3097

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! May cause eye/skin irritation. Burning produces obnoxious and toxic fumes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols

Appearance: Dark brown monofilament in it's natural state.

Color: Dark Brown

Physical State: Solid

Solid Odor: Sweet

Potential health effects:

Eye contact: Contact with eyes may cause irritation.

Skin Contact: Substance may cause slight skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, and a sore throat and cough. Low hazard for usual industrial or commercial handling.

Target Organ Effects: There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Sensitization: Did not cause sensitization on laboratory animals

Specific Hazards: No information available

Flammability: Fine dust dispersed in air may ignite

Environmental Precautions: Not determined See Section 12 for more information.

NFPA Rating:	Data not available	
Health: 1	Flamm: 1	Reactivity: 0
Special:	Not determined	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	OSHA Exposure Limits	ACGIH Exposure Limits
Poly lactide Resin	>98	None	None

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NOTICE 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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All ingredients in quantities >1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

Other Standards: This material can generate Particulates not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15mg/m³ for total dust and 5mg/nf for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10mg/rrf for inhalable particulates and 3 mg/m³ for respirable particulates.

4. FIRST AID MEASURES

Emergency Telephone Numbers (24 hours a day): 1-877-336-3097

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

Skin Contact: Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

Inhalation: Move to fresh air. Call a physician immediately.

Ingestion: Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability: Auto-ignition Temperature: 388C

Flammability Limits in Air:

Flammable limits in air – lower (%): Not applicable

Flammable limits in air – upper (%): Not applicable

Suitable Extinguishing Media: Foam. Water. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.

Extinguishing media which must not be used for safety reasons: No information available

Hazardous Decomposition Products: Burning produces obnoxious and toxic fumes Aldehydes Carbon Monoxide (CO) carbon dioxide (CO₂)

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Under Fire Conditions: Cool containers/tanks with spray water. Water mist may be used to cool closed containers.

Other Information: Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.

Environmental Precautions: do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for Cleaning up: Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

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Safe Handling Advice: Avoid contact with skin and eyes. Avoid dust formation. Workers should be protected from the possibility of contact with molten material during fabrication. Low hazard for usual industrial or commercial handling. Use personal protective equipment. See Section 8.

Storage: Store in cool place. Keep at temperatures below 122F (50C). No special restrictions on storage with other products.

Precautions: No special precautions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Control Parameters: None

Personal Protective Equipment:

Eye Protection: Safety glasses with side-shields, goggles.

Skin and Body Protection: Impervious clothing

Respiratory Protection: Respirator must be worn if exposed to dust. Wear respirator with dust filter. Respiratory protection is needed if any of the exposure limits in Section 2 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Hand Protection: Preventative skin protection.

Hygiene Measures: Avoid contact with skin, eyes, and clothing

Exposure Limits: See Section 2

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, translucent, opaque

Color: Clear, Translucent, Opaque

Physical State: Solid

pH: Not applicable

Vapor Pressure: Not determined

Vapor Density: Not determined

Evaporation Rate: Not determined

Density: 1.24g/cc

Boiling Point/Range: Not applicable

Decomposition Temperature: 482F (250C)

Melting Point/Range: Not determined

Water Solubility: Insoluble

Solubility in other Solvents: None known

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Conditions to Avoid: Temperatures above 446F (230C)

Material to Avoid: Oxidizing agents. Strong bases.

Hazardous Decomposition Products: Burning obnoxious and toxic fumes. Aldehydes. Carbon monoxide (CO). Carbon dioxide (CO₂)

Polymerization: Not applicable

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11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute Toxicity: There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Local Effects: May cause eye/skin irritation. Product dust may be irritating to eyes, skin, and respiratory system. Caused mild to moderate conjunctival irritation in eye irritation studies using rabbits. Caused very mild redness in dermal irritation studies using rabbits (slightly irritating). Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Long Term Toxicity: Did not cause skin allergic reactions in skin sensitization studies using guinea pigs.

Specific Effects: May cause skin irritation and/or dermatitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant fumes.

Mutagenic Effects: Not mutagenic in AMES Tests

Reproductive Toxicity: No data is available on the product itself

Carcinogenic Effects: No data is available on the product itself

Target Organ Effects: There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Skin: LD50/dermal/rabbit > 2000 mg/kg

Ingestion: LD50/oral/rat > 5000 mg/kg

12. ECOLOGICAL INFORMATION

Mobility: NO data available

Bioaccumulation: Does not bioaccumulate. Inherently biodegradable

Ecotoxicity Effects: EC50/72h/algae > 1100 mg/L

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products: In accordance with local and national regulations. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Contact manufacturer.

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

Contaminated Packaging: Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):

Proper shipping name: Not regulated as a hazardous material

IMDG:

Proper Shipping Name: None Hazard Class: Not regulated

UN/Id No.: None packing group: None

ICAO/IATA:

Proper Shipping Name: None Hazard Class: Not regulated.

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Packing Group: None

15. REGULATORY INFORMATION

(Not meant to be all inclusive – selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, now 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.

U.S. REGULATIONS

Sara 313 title III: Not Listed

TSCA Inventory List - Listed State

Regulations

California Proposition 65 Not listed

International Inventories Canada DSL

Inventory List: Listed

Reach/EU EINECS List: Components are in compliance with and/or listed

Japan (ECL): Listed

Australia (AICS): Listed

Korean Chemical Inventory: Listed

Philippines (PICCS) Inventory: Not Listed

China Inventory of Existing Chemical Substances List: Listed

16. OTHER INFORMATION

Label Information: 3D-Fuel Buzzed™

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Reason for Revisions: Not applicable

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Recommended Restrictions: None

Prepared by: 3DomFuel™

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