## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

| | |
|---|---|
| Product name | Rizium CF (carbon fiber filled) |
| **Details of the supplier of the safety data sheet** | |
| Manufacturer/Supplier name | Palitra, LLC |
| Address | 1500 District Avenue, Suite 2126<br>Burlington, MA 01803, USA |
| Customer service | 1-617-331-6748 |
| Emergency telephone (English only) | 1-617-331-6748 |
| **Relevant uses and uses advised against** | |
| Use | 3D printing filament |

## SECTION 2: HAZARD(S) IDENTIFICATION

**GHS-US classification**
Not a hazardous substance or mixture

**GHS label elements**
None

**Precautionary statements**
Not applicable

**Other hazards**
As supplied and when used as intended, this product is not expected to cause any adverse health effects. Toxic combustion products may be released under fire conditions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any hazardous ingredient at or above regulated thresholds.

## SECTION 4: FIRST AID MEASURES

| | |
|---|---|
| Inhalation | N/A under normal use |
| Skin contact | N/A under normal use |
| Eye contact | Treat as any foreign particulate matter. Do not rub eye. Flush eyes with running water for several minutes while holding eyelids open. Consult a physician if irritation persists. |

| | |
|---|---|
| Ingestion | Normally not needed. If large quantities are ingested or if you feel unwell, call your local Poison Control Center (1-800-222-1222 in the U.S.) or physician. |

**Most important symptoms, both acute and delayed**
None known when used as intended.

## SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media**
Use extinguishing media suitable for Class A fires (ordinary combustibles). Carbon dioxide is generally not recommended for use on Class A fires as a lack of cooling capacity may result in re-ignition.

Laboratory tests for thermal properties were conducted using OECD Guidelines. The results are indicated below:
93/105/EC Annex VIII 3.10 (Flammability (solids)): Not highly flammable
93/105/EC Annex VIII 3.11 (Explosive properties): Not explosive
93/105/EC Annex VIII 3.12 (Relative self-ignition temperature for solids): Does not self-ignite
93/105/EC Annex VIII 3.16 (Thermal stability): Stable at room temperature

**Special hazards arising from the substance or mixture**
Product will burn in a fire.

**Advice for firefighters**
As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode (NIOSH approved or equivalent) and full protective gear. Toxic gases may be formed upon combustion and represent a hazard to firefighters. See Section 10 for information on combustion products.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | No special requirements |
| Environmental precautions | As with all industrial chemicals, use of good chemical hygiene and environmental stewardship practices is recommended. |
| Methods and materials for containment and cleaning up | Place into appropriate containers for reuse, recycle or disposal. |

## SECTION 7: HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Handle in accordance with good industrial hygiene and safety practice. At temperatures above 400 °C, product will emit fumes and vapors. If exposure to temperatures above 400 °C occurs, use only with adequate ventilation, do not breathe dust, vapor or fumes, and wash thoroughly after handling.<br>Any post-processing operations involving heat sufficient to result in polymer breakdown emitting smoke and fumes should be conducted in such a manner as to avoid inhalation of fumes. Local exhaust ventilation and respiratory protection may be required. |
| Conditions for safe storage | Store in a cool, dry area away from direct light to maintain quality. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**
Contains no substance with occupational exposure limit values.

**Engineering measures**
None required when used as intended.

**Personal protective equipment**
Eye/face/skin protection: follow facility guidelines.
Respiratory protection: respiratory protection is not required during normal use and handling operations.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: physical state | Solid |
| Odor | None |
| Odor threshold | Not applicable |
| Vapor pressure | Negligible |
| Vapor density (air = 1) | Not applicable |
| pH | Not determined |
| Volatiles (minus H2O) w/w% | < 0.0001 |
| Evaporation rate (water = 1) | Not applicable |
| Viscosity (B-type viscometer @ 60 rpm) | Not applicable |
| Octanol/water partition coefficient | Not determined |
| Flammability | See Section 5 |
| Water solubility | Insoluble |
| Melting point/freezing point | Not determined |
| Relative density (water = 1) | 1.02 |

| | |
|---|---|
| Flash point | Not applicable |
| Initial boiling point | Not applicable |
| Autoignition temperature | Not determined |
| Lower explosive (flammable) limit | Not applicable |
| Upper explosive (flammable) limit | Not applicable |
| Decomposition temperature | Not determined |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Hazardous polymerization will not occur |
| Chemical stability | Stable under normal conditions of use and storage |
| Possibility of hazardous reactions | None known |
| Conditions to avoid | Overheating (above 400 °C) |
| Incompatible materials | As with all organic materials, avoid contact with strong oxidizers and reducing agents |
| Hazardous decomposition products | Carbon monoxide, carbon dioxide, hydrocarbons |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of entry**
Eye contact, skin contact, vapor/dust, inhalation

**Symptoms of overexposure**
The product, as supplied, is not expected to cause acute or chronic effects when used as intended in FFF 3D printing. Abnormal use or handling of the product may create vapors or fumes which may cause respiratory tract irritation.

**Acute toxicity**

| Chemical name | LD50 oral (rat) | LD50 dermal (rabbit) | LC50 inhalation |
|---|---|---|---|
| Proprietary resin | No data available | No data available | No data available |

**Carcinogenicity**

| | |
|---|---|
| IARC | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| NTP | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

## SECTION 12: ECOLOGICAL INFORMATION

No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste resulting from this product as supplied is not known to be classified as a hazardous waste per the current listings and characteristics contained in 40 CFR Part 261 and its Appendices. It is the generator's responsibility to determine, per the regulation, the applicability of the Resource Conservation and Recovery Act (RCRA), as well as all state, local, or other governmental agency waste disposal regulations, to the particular waste materials prior to treatment or disposal.

## SECTION 14: TRANSPORT INFORMATION

**Domestic regulation**
DOT: this product is not defined or designated as a hazardous material by the US Department of Transportation under Title 49 of the Code of Federal Regulations.

**International regulations**
IATA: This product is not classified as a dangerous good for transport.
IMDG: This product is not classified as a dangerous good for transport.
TDG: This product is not classified as a dangerous good for transport.

## SECTION 15: REGULATORY INFORMATION

**EPA SARA Title III chemical listings**
Section 311/312: None
Section 313 (chemicals exceeding the de minimis amount subject to reporting): None

**US State Right to Know**
This product contains the following chemical(s) exceeding the de minimis amount subject to disclosure under State Right-to-Know regulations:

| Chemical name | CAS # | Key |
|---|---|---|
| Proprietary resin | Proprietary | PA NH |

Key: PA NH = Pennsylvania non-hazardous substance present at more than 3%.

**California Prop. 65**
This product is not known to contain any chemicals currently listed as carcinogens.

**International regulations**

| Inventory | Status |
|---|---|
| TSCA | All ingredients listed or exempt |
| NECSI | All ingredients listed or exempt |
| KECL | All ingredients listed or exempt |
| AICS | All ingredients listed or exempt |

| | |
|---|---|
| IECSC | All ingredients listed or exempt |
| PICCS | Not listed |
| DSL | All ingredients listed or exempt |
| ENCS | All ingredients listed or exempt |

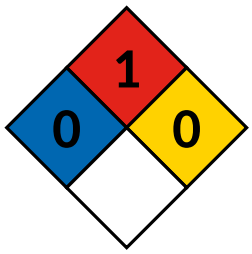
## SECTION 16: OTHER INFORMATION

**HMIS**

| | |
|---|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant; 1 = slight; 2 = moderate; 3 = high; 4 = extreme. HMIS (Hazardous Materials Identification System) ratings apply to products as packaged.

**NFPA**




NFPA (National Fire Protection Association) ratings identify hazards during a fire emergency.

| | |
|---|---|
| First issue date | 10/01/2019 |
| Revision date | 10/22/2026 |
| Changes in this revision | Version 2.0: supplier address updated; references to RIZE printers removed; relative density corrected to 1.02; NFPA health rating corrected to 0 (matches HMIS); disclaimer updated to Palitra, LLC. |

**Disclaimer**

*The information provided in this Safety Data Sheet is accurate to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Palitra, LLC makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefor.*

End of safety data sheet