# Safety Data Sheet for Chemical Products

## SECTION 1. Identification of the chemical product and manufacturer

| | |
|---|---|
| **1.1 Product Name** | **:** ELEGOO PLA SILK |
| **1.2 Product Model** | **:** 3DF-PLA SILK |
| **1.3 Main Application** | **:** FDM 3D Printer Filament |
| **1.4 Applicant Name** | **:** Shenzhen ELEGOO Technology CO., LTD. |
| **1.5 Applicant Address** | **:** 101, No. 30, Dahe Industrial Zone, Guancheng Community, Guanhu Street, Longhua District, Shenzhen, Guangdong Province, China |
| **1.6 Manufacturer Tel** | **:** 0755-21005141 |
| **1.7 Manufacturer Email** | **:** INFO@ELEGOO.COM |

## SECTION 2. Hazards identifications

**2.1 Hazard Class (GHS):**

Not classified as hazardous in compliance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (part 2~4).

**2.2 Pictograms:**

Not applicable.

**2.3 Signal word:**

Not applicable.

**2.4 Hazard description:**

Not applicable.

**2.5 Precautionary description:**

P101 If medical advice is needed, have product con or label at hand.

P103 Read carefully and follow all instructions.

**2.6 Other hazard:**

None

## SECTION 3. Composition/information on ingredients

**Ingredient(s) of the product: Mixture**

| Substance name | CAS NO. | Component proportion (%) |
|---|---|---|
| Polylactic acid | 26023-30-3 | ≥ 88 |
| Assistant agent | - | ≤ 12 |

## SECTION 4. First aid measures

**4.1 Following inhalation:**

Not applicable.

**4.2 Following skin contact:**

If feeling irritation after contact, rinse skin with plenty of water and seek medical attention.

**4.3 Following eye contact:**

If feeling irritation after contact, immediately flush eyes with plenty of water for at least 15 minutes and refer for medical attention.

**4.4 Following ingestion:**

Call a physician or Poison Control Center immediately. Ensure that medical personnel are informed about the ingested substance before proceeding with any actions.

## SECTION 5. Firefighting measures

**5.1 Fire hazard:**

Combustible under certain conditions.

**5.2 Extinguishing Media:**

Extinguishing media of water, foam, carbon dioxide ($CO_2$), and dry chemical.

**5.3 Firefighting procedures:**

Take all precautions to avoid mixing with combustibles.

As in any fire, fight fires at a safe distance and with adequate protection wearing self-contained breathing apparatus and full protective gear as suggestion.

**5.4 Explosion hazard:**

No explosion hazard.

## SECTION 6. Accidental release measures

**6.1 Personal precautions:**

Avoid inhaling mist or gas. Ensure proper ventilation and evacuate personnel to a safe area.

**6.2 Environmental precautions:**

No special environmental prevention requirements.

**6.3 Cleaning method:**

Use tools to load the leak into the appropriate container and dispose of the waste and residues in accordance with local regulations.

## SECTION 7. Handling and storage

**7.1 Precautions for safe handling:**

Follow standard industrial safety procedures.

**7.2 Precautions for safe storage:**

Store in a dry, light-protected place with a tightly sealed container. Avoid high temperature, humidity, soil contact, and oxidizing agents, etc. Keep in the original packaging bag within the shelf life. Keep the packaging bag sealed to avoid moisture.

## SECTION 8. Exposure controls/personal protection

**8.1 Control parameters:**

Store in a cool, dry place, away from heat and flames.

**8.2 Engineering control:**

Keep the environment dry and well-ventilated.

**8.3 Personal protection:**

| | |
|---|---|
| Respiratory protection | Under normal circumstances, there is no need to use protective equipment. |
| Eye protection | Under normal circumstances, there is no need to use protective equipment. |
| Skin protection | Under normal circumstances, there is no need to use protective equipment. |
| Body protection | Under normal circumstances, there is no need to use protective |

| | |
|---|---|
| | equipment. |

**8.4 Sanitary measure:**

If worrying about the cleanliness of the product, wash your hands after operating or using the product.

## SECTION 9. Physical and chemical properties

| | |
|---|---|
| Appearance | Solid filament |
| Odor | No data available. |
| Odor threshold | No data available. |
| Density (g/cm³) | 1.25g/cm$^3$ (25℃) |
| Melting point | No data available. |
| Boiling point (℃) | No data available. |
| Flash point (℃) | No data available. |
| Water solubility | Insoluble |
| Solubility | No data available. |

## SECTION 10. Stability and reactivity

**10.1 Stability:**

Stable under recommended storage and handling conditions.

**10.2 Material for avoiding:**

Strong oxide, acid and alkali.

**10.3 Contact conditions for avoiding:**

High temperature, open flame, humidity, direct sunlight or strong light.

**10.4 Hazardous decomposition products:**

None

## SECTION 11. Toxicological information

**11.1 Acute toxicity:**

Based on available data, no relevant data.

**11.2 Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

**11.3 Serious eye damage/irritation:**

Based on available data, the classification criteria are not met.

**11.4 Respiratory or skin allergic reactions:**

Based on available data, no relevant data.

**11.5 Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

**11.6 Carcinogenicity:**

Based on available data, the classification criteria are not met.

**11.7 Reproductive toxicity:**

Based on available data, the classification criteria are not met.

**11.8 STOT-single exposure:**

Based on available data, the classification criteria are not met.

**11.9 STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

**11.10 Aspiration hazard:**

Not applicable.

## SECTION 12. Ecological information

**12.1 Toxicity:**

Not applicable.

**12.2 Persistence and degradability:**

Biodegradable under specific conditions.

**12.3 Bioaccumulative potential:**

Not applicable.

**12.4 Mobility in soil:**

Not applicable.

**12.5 Other Dangers:**

PBT and vPVB evaluation results: Not applicable.

## SECTIONN 13. Disposal considerations

**13.1 Handling method for waste:**

Handling waste according to the local regulations.

**13.2 Handling method for uncleaned packaging**

Handling waste according to the local regulations.

## SECTION 14. Transport information

**This is not classified as a hazardous/dangerous material under ADR/RID GGVS/GGVE IMDG/RID ICAO-TI regulations.**

| | |
|---|---|
| Packaging Label | None |
| UN NO. | None |
| UN shipping name | None |
| Transport hazard class (ES) | 9 |
| Packing group | None |
| Marine pollutants | No |

## SECTION 15. Regulatory information

**15.1 Safety, health and environmental regulations/laws for pure substances or mixtures**

**EU CLP 2008**

The substance is not classified as dangerous for transport according to EC.

**TSCA (Toxic Substances Control Act)**

All components of copolyesters are included in the TSCA list, and polymers are exempt from TSCA regulations.

**DSL (Domestic Substances List) and CEPA (Canadian Environmental Protection Act)**

All components of copolyesters are included in the DSL list, and polymers are exempt from the DSL regulations.

**AICS/NICNAS (Australian Industrial Chemicals Introduction Scheme/National Industrial Chemicals Notification and Assessment Scheme)**

None of the ingredients is listed.

**Other regulations：**

None of the ingredients is listed.

**15.2 Safety assessment of chemical substances**

Not evaluated.

## SECTION 16. Other information

The information in this MSDS was obtained from sources believed to be reliable. However, we make no warranties, express or implied, regarding the data provided. The handling, storage, use, or disposal conditions and methods of this product are beyond our control and may exceed our knowledge. Under no circumstances shall we be liable for loss, damage and related costs resulting from improper handling, storage, use, or disposal of this chemical product. This MSDS is prepared for this product and should only be applied to this product.

**********END**********