



# Material Safety Data Sheet

**Product** Elixir PLA

**Doc Date:** 30/08/2018

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**Product name:** Polyalchemy Elixir PLA

**Product code:** PE01345

**Product Use:** For general use in FDM 3D printers within the recommended temperatures

**Manufacturer :** Shenzhen Anboge Electronic Technology Co., Ltd.

**Address:** #1210, Block A, Jiahe Huaqiang Building, Shennan Middle Rd,  
Futian District, Shenzhen, China

**Emergency Ph:** +86 15814795636

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## 2. HAZARDS IDENTIFICATION

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### Emergency Overview

Not likely to be an irritant in pellet form. Burning produces obnoxious and toxic fumes. Avoid prolonged contact with skin and contact with eyes.

**Appearance:** Clear, translucent, opaque, pellets.

**Color:** Clear Translucent Opaque

**Physical state:** Solid

**Odor:** Sweet

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** Filament is not likely to cause irritation.  
Contact with molten material may cause thermal burns.

**Inhalation:** Processing fumes may cause irritation to the respiratory tract, use in well ventilated areas only.

**Flammability:** Fine dust dispersed in air may ignite.

**Environmental precautions:** Not determined See Section 12 for more information.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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| Chemical name:     | Weight % | CAS #:     |
|--------------------|----------|------------|
| Poly lactide resin | >88      | 33135-50-1 |
| Modifiers          | >10      | N/A        |
| Pigment            | >2       | N/A        |

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### 4. FIRST AID MEASURES

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• **(Poisons Information Hotline) In England and Wales: NHS 111 - dial 111**

**Eye contact:** First Aid not likely required. Flush with water. Consult physician if symptoms persist.

**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.

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### 5. FIRE FIGHTING MEASURES

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**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 (CO<sub>2</sub>). 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 (CO<sub>2</sub>)

**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. Avoiding accumulation of dust, e.g. on floors and ledges, shall prevent risks of ignition followed by flame propagation or secondary explosions.



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## 6. ACCIDENTAL RELEASE MEASURES

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**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.

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## 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 (50 °C).

No special restrictions on storage with other products

**Precautions:** No special precautions required

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## 8 . EXPOSURE CONTROLS / PERSONAL PROTECTION

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**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.

**Hand protection:** Preventive skin protection.

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES:

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**Appearance:** Smooth pearlescent strands

**Physical state:** Solid

**Odor:** Sweet

**pH:** Not applicable

**Vapor pressure:** Not determined

**Vapor density:** Not determined

**Evaporation rate:** Not determined

**Density:** 1.24 g/cc

**Boiling point/range:** Not applicable

**Decomposition temperature:** 482F (250C)

**Melting point/range:** Not determined

**Water solubility:** Insoluble

**Solubility in other solvents:** None known

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### 10. STABILITY AND REACTIVITY

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**Stability:** Stable under recommended storage conditions

**Conditions to avoid:** Temperatures above 446F (230 °C).

**Materials to avoid:** Oxidizing agents. Strong bases.

**Hazardous decomposition products:** Burning produces obnoxious and toxic fumes.

Aldehydes.

Carbon monoxide (CO). carbon dioxide (CO<sub>2</sub>).

**Polymerization:** Not applicable

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### 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** Not Known

**SKIN CORROSION/IRRITATION:** Contact with dust/fumes may cause irritation

**SERIOUS EYE DAMAGE/IRRITATION:** Contact with dust/fumes may cause irritation.

**GERM CELL MUTAGENICITY:** Not Determined

**CARCINOGENICITY:** Not Determined

**REPRODUCTIVE TOXICITY:** Not Determined

**STOT-SINGLE EXPOSURE:** Not Determined

**ASPITATION HAZARD:** None Known



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## 12. ECOLOGICAL INFORMATION

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**Mobility:** No data available

**Bioaccumulation:** Not Determined

**Ecotoxicity effects:** Not Determined

## 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 container.

## 14. TRANSPORT INFORMATION

**Proper shipping name:** Not regulated as a hazardous material.

**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.

## 21. REGULATORY INFORMATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372: NONE

## 23. OTHER INFORMATION

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