

PLA – PRINT WITH SMILE

SAFETY DATA SHEET

1. Product and Company Identification

Product name:

PLA – Print With Smile

Use of the material: Filaments for 3D printing

Producer: FUEL Invest SE, Příkop 843, 602 00 Brno, ID.Nr. 242 32 084,

Website: www.printwithsmile.com

Telephone: +420 606 796 796

E-mail: sales@3dfilaments.cz

2. Composition/Information on Ingredients

Substances:

Polyactide resin – CAS No. : 9051-89-2

3. Physical and chemical properties

Physical state: Solid natural or colored

Form: filament

Colour: natural or colored

Odour: sweet

pH: Not applicable

Auto-ignition temperature: >385°C

Density: 1,25 g/cm³

Melting point/range 150 – 180 °C

The material is classified as non-hazardous according to chemical regulations

4. First-Aid Measures

By inhalation:

Seek fresh air and call a physician.

By skin contact:

After contact with hot melted material: cool melted product on skin with plenty of water. Do not remove solidified product.

After Contact with material at room temperature: wash skin with plenty of water and soap.

By eye contact:

Flush eyes with water.

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5. Fire-fighting measures

Flash point:

Autoignition temperature: more as 388°C

Suitable extinguishing media:

Foam, water, dry chemicals, carbon dioxide

Protection of the fire fighting personnel:

Use self-contained breathing apparatus when fighting fires in confined spaces.

Special exposure hazards:

Principal toxicant in the smoke is carbon monoxide.

6. Accidental release measures

The product is not released spontaneously.

All spill of material must be removed immediately to prevent slipping accidents.

7. Handling and storage

Storage: Store on ambient temperature under 40 °C, keep the package well closed and dry

Precaution for safe handling: Provide adequate ventilation. Avoid dust formation, avoid contact with skin and eyes, avoid the contact with hot and molten materials during fabrication. Use personal protective equipment as required.

8. Exposure controls/personal protection

When working under normal temperature and under normal conditions no special safety equipment is necessary.

Individual protection measures:

Respiratory protection:	Not required
Hand protection:	Not required
Eye protection:	Not required
Body protection:	Not required

When processing the material at temperature higher than minimal melting point the following special safety equipment is necessary.

Individual protection measures:

Respiratory protection:	Not required
Hand protection:	Utility gloves resistant to high temperatures
Eye protection:	<u>Safety goggles</u>
Body protection:	Not required

9. Stability and reactivity

Stability:

In normal circumstances the material is stable.

Circumstances to avoid:

Excessive temperature higher than minimal melting point, ignition sources.

Hazardous decomposition products:

In normal conditions the material does not decompose.

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10. Toxicological information

Inhalation: May cause mild irritation.
Skin contact: May cause slight irritation.
Ingestion: May cause discomfort.
Acute toxicity: Not known.

11. Ecological information

Toxicity: EC50/72 h/algae > 1100 mg/l

Persistence and degradability: Inherently biodegradable under industrial composting conditions.

Bioaccumulative potential: Not expected to bioconcentrate or bioaccumulate.

12. Disposal considerations

In case of need authorized organization is entitled to dispose or recycle it.

