

1. Identification of the substance/preparation and of the company

- 1.1 Trade names:** LAYFILAMENTS:
LAYaWay series: LAY-CLOUD
- 1.2 Use of the product:** 3D printing filament / temporarily support material
- 1.3 Supplier:** CC – PRODUCTS; Auenweg 173 / 10; 51063 Köln . Germany ;
kp@cc-products.de; Emergency phone number: +49-221-510 47 53

2. Hazards identification

- 2.1 Classification:** Not dangerous according to Directive 67/548/EEC
- 2.2 Special advice on hazards:** Danger of burns in contact with hot polymer. Hazardous vapours in case of burning.

3. Composition / information on ingredients

Chemical characteristics: Polymerblend on base of following thermoplastics;
PVOH – PolyvinylAlcohol
PLA – PolyLactid
LDPE – low density PolyEthylen

Additional information: no harmful ingredients

4. First-aid measures

- On skin contact:** In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns.
- On ingestion:** Rinse mouth with water.
- On eyes contact:** Rinse open eyes thoroughly with water.

5. Fire-fighting measures

- 5.1 Suitable fire extinguishing media** water ,dry chemical extinguisher, foam, carbon dioxide
- 5.2 Special exposure hazards:** During incomplete combustion release of carbon monoxide, tetrahydrofurane and decomposition products possible.

6. Accidental release measures

- 6.2 Methods for cleaning up:** Sweep up material.

7. Handling and storage

- 7.1 Handling:** Avoid contact with molten polymer.
- 7.2 Storage:** Protect against moisture. Store dry.

8. Exposure controls/ personal protection

- Personal safety equipment:** Use adequate safety equipment, eye protection glasses, hand gloves.
- Work hygiene:** No eating or drinking during working. Avoid contact of hot material with skin.

9. Physical and chemical properties

Form: mono filament
Colour: white, minimal green
Odour: almost odourless
Solubility in water partly soluble in cold water

10. Stability and reactivity

Stability and Printing:

The product is stable at recommended storage conditions.
Avoid exposure to extreme heat.
Thermal decomposition starts slowly at 235°C, but you may print also with 245°C.
After print has finished, clean the hotend with a different filament (f.e. ABS or PLA) If filament is wet (not stiff enough to feed), dry it in oven at 80° for min. 2 hours. Store dry.

11. Toxicological information

Local irritation: Dust can cause irritation of eyes, respiratory organs and skin. After ingestion stomach pain or nausea are possible.

Other remarks: Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.

12. Ecological information

Ecotoxicological effects: No negative ecological effects known at the present state of knowledge, test results are not available.

13. Disposal considerations

Small amounts can be incinerated or dumped together with domestic waste (in compliance with local authority requirements).

14. Transport information

Transport regulations: Not classified as hazardous under transport regulations ADR, ADNR, RID, ICAO/IATA, IMDG/GGVSee, ICAO/IATA

15. Regulatory information

EU regulations: This product does not require a hazard warning label in accordance with EC Directives.

Water exposure class (Germany): no risk of water pollution (classification acc. Att. 1 of VwVwS)

16. Other information

contains no heavy metal, RoHS