

SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

- 1.1 Identification of the substance or preparation:** ColorFabb PETG Economy filament; all available colors.
- 1.2 Use of the substance or preparation:** FDM 3D printing
- 1.3 Company/undertaking identification** Colorfabb B.V.
NL-5951 DK BELFELD, The Netherlands
Tel.: +31 77 4664015
Fax: +31 77 3971414
E-mail: sales@colorfabb.com
- 1.4 Emergency telephone:** For emergency, health, safety, and environmental information
Colorfabb B.V.; Tel.: 0031-77 4664015 (only during office hours)

2. HAZARDS IDENTIFICATION

- 2.1 Classification** This product is not classified as hazardous according to EC 1272/2008
- 2.2 Label elements**
- | | |
|-------------------------|-----------------|
| Health hazards: | Not applicable |
| Environmental hazards | Not applicable. |
| Hazard symbol | Not applicable |
| Signal Word | Not applicable |
| Hazard Statement | Not applicable |
| Precautionary statement | Not applicable |
| PBT and vPvB substances | Not applicable |
- 2.3 Other hazards** None known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Description

3.2 Hazardous ingredients

Substance name	CAS number	Concentration	Classification
Copolyester	---	>96 %	Substance is not classified according to Directive 1272/2008 (CLP)
Color additives	---	<4 %	Substance is not classified according to Directive 1272/2008 (CLP)

- 3.3 Additional information** No additional information

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4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	First aid measures are not expected if printing filament is used as recommended. No hazards known that require special first aid measures.
Inhalation	Not likely due to physical form. Overheating or burning may release vapors or decomposition products which may be irritating. In case of inhalation of decomposition products, move to fresh air. Get medical attention if symptoms persist.
Eye contact	Unlikely to occur. Particles or dust may give mechanical irritation to the eyes. Rinse eyes with plenty of water. Get medical attention if symptoms occur.
Skin contact	Unlikely to result in first aid measures. Molten material coming from the 3D printing device may cause small burns. Cool with plenty of water. Get medical attention if needed.
Ingestion	Unlikely to occur. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards	None
Treatment	Treat symptomatically

5. FIRE FIGHTING MEASURES

General Fire Hazards	Polymer material can accumulate static charges which may cause an electrical spark (ignition sources). Use proper bonding and/or grounding procedures if needed.
5.1 Extinguishing media Suitable extinguishing media: Unsuitable extinguishing media:	Water spray, dry-chemical, carbon dioxide None known
5.2 Special hazards arising from the substance/mixture	Powdered material may form explosive dust-air mixtures
5.3 Advice for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	No measures required
6.2 Environmental precautions	Material not regarded as dangerous for the environment

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6.3 Cleanup, containment and disposal of spill

Sweep up dust or particles or pieces of filament by scoop or vacuum. Dispose of material in suitable container according local regulations.

6.4 Reference to other sections

Not applicable.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety practice. Avoid overheating. Ensure adequate ventilation during printing

7.2 Conditions for safe storage

Keep containers closed in a cool and dry place, away from direct sunlight. Reseal package if possible to avoid uptake of moisture, to protect the technical integrity of the product.

7.3 Specific use

Copolyester 3D filament is to be used in suitable FDM 3D printers only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

Printing filament contains no substances with occupational exposure control limits.

Biological limit values

There are no biological limit values for any of the components.

Recommended monitoring procedures

No monitoring procedures recommended

Derived No Effect Level (DNEL)

Not established

8.2 Exposure controls

Appropriate Engineering Controls

Ensure adequate room ventilation to prevent buildup of dust or fumes during printing. Keep processing temperatures below decomposition temperature

Individual protection measures

Eye protection

Not required (for FDM 3D printing)

Hand protection

Not required (for FDM 3D printing)

Skin protection

Not required (for FDM 3D printing)

Respiratory protection

Not required (for FDM 3D printing)

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when printing this product.

Environmental exposure controls

No data available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Filament, string, spool
Physical state @20°C	Solid
Color	White, Black, Red or Silver
Density	≈ 1,28 g/cm ³
Odor	Odorless
Boiling point	No data available
Flammability	No data available
Autoignition temperature	No data available
Decomposition temperature	>350°. Thermal stability not tested. Low stability hazard expected at normal printing temperatures.
pH-value	No data available
Viscosity	No data available
Flashpoint	Not applicable, combustible solid
Solubility in water	Negligible
Vapour pressure	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity	Chemically stable under normal conditions of use and storage
10.2 Chemical stability	Chemically stable under normal conditions of use and storage
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	Avoid conditions of overheating which may result in degradation.
10.5 Incompatible materials	Avoid strong oxidizing agents
10.6 Hazardous decomposition products	Carbonmonoxide, carbondioxide

11. TOXICOLOGICAL INFORMATION

Skin contact	No data available (not to be expected)
Eye contact	No data available (not to be expected)
Skin sensitation	No data available (not to be expected)
Respiratory sensitation	No data available (not to be expected)
CMR effects	No data available; none of the ingredients is listed as CMR substance
General remarks	No other toxicological data available

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12. ECOLOGICAL INFORMATION

12.1 Aquatic toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	No data available; product does not contain PBT or vPvB listed substances
12.6 Other adverse effects	No adverse effects known to date
12.7 Additional ecotoxicological information	Contains no substances known to be hazardous for the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of material waste and residues in accordance with local regulations.
13.2 Additional information	None available
13.3 Packaging	Cardboard box and/or empty filament spool can be recycled or can be disposed of in accordance with local regulations

14. TRANSPORT INFORMATION

14.1 RID / ADR	Not regulated
14.2 ICAO / IATA-DGR	Not regulated
14.3 GGVSEE / IMDG-CODE	Not regulated
14.4 UN-NR	Not regulated

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the substance or mixture

US Toxic Substances Control Act (TSCA) All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Korean Toxic Substances Control Act (ECL) All components are listed on the Korean inventory or are covered by a polymer exemption.

15.2 Chemical safety assessment None

16. OTHER INFORMATIE

Revision Information Not relevant

Relevant H-phrase: None

Changes compared to previous version: Decomposition temperature added to section 9.

Abbreviations

- REACH; Registration, Evaluation, Authorisation and restriction of chemical substances
- EC: European Community
- STOT: Specific Target Organ Toxicity
- PBT: Persistent, Bioaccumulating, Toxic
- vPvB: very Persistent, very Bioaccumulating
- ADR; Accord européen relative au transport international des marchandises Dangereuses per Route
- ADN: Accord européen relative au transport international des marchandises Dangereuses per voies de Navigation intérieures
- RID: Regulations for the international Transport of dangerous goods by rail
- IMDG: International maritime dangerous goods code
- ICAO: International civil aviation organization

This safety datasheet complies with the requirements of EC 1907/2006 and regulation EC 2015/830. Label element according to regulation EC 1272/2008.

Disclaimer

The information provided in the safety datasheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information only relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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