



1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

| | |
|--|---|
| 1.1 Identification of the substance or preparation: | Colorfabb 3D printing filament All information in this SDS is applicable to the filament material, not the filament spool itself. |
| 1.2 Use of the substance or preparation: | FDM 3D printing |
| 1.3 Company/undertaking identification | Colorfabb B.V. Bremweg 7 NL-5951 DK BELFELD, The Netherlands Tel.: +31 77 4664015 Fax: +31 77 3971414 E-mail: sales@colorfabb.com |
| 1.4 Emergency telephone: | Colorfabb B.V.; Tel.: 077 4664015 (only during office hours) |

2. HAZARDS IDENTIFICATION

| | | |
|---------------------------|--|----------------|
| 2.1 Classification | This product is not classified as dangerous according to Regulation (EC) 1272/2008 (CLP) | |
| 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 |

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Description colorFabb XT-CF20 is a copolyester, filled with milled carbon fiber reinforcement and proprietary additivation

3.2 Hazardous ingredients

| Substance name | CAS number | Concentration | Classification | H-Phrases |
|--------------------------|------------|---------------|----------------|-----------|
| No hazardous ingredients | --- | --- | --- | --- |

3.3 Additional information None

4. FIRST AID MEASURES

| | |
|------------------------------|---|
| 4.1 Skin contact | Molten material during printing can cause burns. In case of burns cool immediately with water for at least 10 minutes. Seek medical attention. |
| 4.2 Eye contact | Unlikely during normal use. |
| 4.3 Inhalation | Not likely during normal use. Long term overheating or burning of material can cause decomposition. After inhalation of decomposition products/fumes, bring the affected person to a source of fresh air and keep calm, provide medical aid if necessary. |
| 4.4 Ingestion | Unlikely. If ingestion occurs anyway, drink plenty of water. If difficulties occur, seek medical attention |
| 4.5 Note to physician | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| 5.1 Extinguishing media | Dry extinguishing media, foam, water spray or fog |
| 5.2 Extinguishing media not to be used for safety reasons | |
| 5.3 Special hazards arising from the mixture | In case of fire product can decompose and generate carbondioxide, carbonmonoxide, aldehydes and traces of other aliphatic and aromatic hydrocarbons |
| 5.4 Protective equipment for fire fighters | Full protective clothing and self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| 6.1 Personal precautions | None required; use adequate ventilation during printing |
| 6.2 Environmental precautions | Prevent material ending up in environment |
| 6.3 Cleanup, containment and disposal of spill | Sweep up if needed and dispose |
| 6.4 Reference to other sections | n.a. |

7. HANDLING AND STORAGE

| | |
|--|---|
| 7.1 Precautions for safe handling | Avoid contact with heated or molten product during printing. Ensure adequate ventilation during printing. |
| 7.2 Conditions for safe storage | Store according to instructions. Protect against moisture and store dry at ambient temperature to maintain product quality. |
| 7.3 Specific use | Product is meant to be used for FDM 3D printing only. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

| | |
|-----------------------------------|--|
| Exposure limits | Given suitable ventilation, it can be assumed that the threshold limits will not be reached. |
| Biological limit values | -- |
| Recommended monitoring procedures | -- |
| Derived No Effect Level (DNEL) | -- |

8.2 Exposure controls

| | |
|----------------------------------|--|
| Appropriate Engineering Controls | Provide adequate ventilation during 3D printing |
| Personal protection measures | |
| Eye protection | Not required (for FDM printing) |
| Hand protection | Not required (for FDM printing) |
| Skin protection | Not required (for FDM printing) |
| Respiratory protection | Not required (for FDM printing) |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. |
| Environmental exposure controls | Do not allow product to enter drains, water courses or soil. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

| | |
|---------------|----------------------------|
| Density | 1,35 g/cm ³ |
| Odour | Odourless |
| Colour | Black |
| Physical form | Filament winded on a spool |

9.2 Important health, safety and environmental information

| | |
|---------------------------|---------------|
| Softening point | >100 °C |
| Auto ignition temperature | Not specified |
| Solubility in water | Insoluble |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| 10.1 Reactivity | The material is not reactive under normal circumstances |
| 10.2 Chemical stability | The material is chemically stable |
| 10.3 Possibility of hazardous reactions | None known |
| 10.4 Conditions to avoid | Avoid overheating the material (>270°C) to avoid thermal decomposition. |
| 10.5 Incompatible materials | Avoid contact with strong acids and oxidizing agents. |
| 10.6 Hazardous decomposition products | Carbon dioxide, carbon monoxide, aldehydes and other gaseous degradation products can be formed if the product is decomposed. |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------------|---|
| LD 50 (Rat oral) | No data available |
| Skin irritation | No data available |
| Eye irritation | No data available |
| Skin sensitisation | No data available |
| Respiratory sensitisation | No data available |
| CMR effects | Non of the ingredients is listed as CMR substance |
| General remarks | Toxicological data has not been determined for this product. Information is based on similar products. No adverse health effects are expected if product is handled as recommended. |

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 Aquatic toxicity | Non-toxic for aquatic life |
| 12.2 Persistence and degradability | No data available concerning biodegradation and elimination |
| 12.3 Bioaccumulative potential | The product will not be readily bioavailable due to its consistency and insolubility in water. |
| 12.4 Mobility in soil | The product is insoluble in water, and has low mobility in soil. Sinks in water. |
| 12.5 Results of PBT and vPvB assessment | Not classified as PBT or vPvB substance |
| 12.6 Other adverse effects | No adverse effects known to date |
| 12.7 Additional ecotoxicological information | No ecotoxicological data has been generated for this product. Information is based on similar products. |

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------------|---|
| 13.1 Waste treatment methods | Dispose of in accordance with local regulations |
| 13.2 Additional information | n.a. |
| 13.3 Packaging | Dispose of in accordance with local regulations |

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

| | |
|----------------------------|---------------------------------------|
| Restrictions of use | None |
| Other regulations | No information available / none known |

15.2 Chemical safety assessment A safety assessment is not required / not available

16. OTHER INFORMATIE

Relevant H-phrase: None

Changes compared to previous version: n.a.

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.