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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS number</th>
<th>Concentration</th>
<th>Classification</th>
<th>H-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>No hazardous ingredients</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

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
In case of fire product can decompose and generate carbon dioxide, carbon monoxide, aldehydes and traces of other aliphatic and aromatic hydrocarbons

5.3 Special hazards arising from the mixture
Full protective clothing and self-contained breathing apparatus.

5.4 Protective equipment for fire fighters

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/cm³
Odour Odourless
Colour Black
Physical form Filament wound on a spool

9.2 Important health, safety and environmental information
Softening point >100 ºC
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 (>270ºC) 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD 50 (Rat oral)</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin sensitation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory sensitation</td>
<td>No data available</td>
</tr>
<tr>
<td>CMR effects</td>
<td>Non of the ingredients is listed as CMR substance</td>
</tr>
<tr>
<td>General remarks</td>
<td>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.</td>
</tr>
</tbody>
</table>

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.1 Waste treatment methods</td>
<td>Dispose of in accordance with local regulations</td>
</tr>
<tr>
<td>13.2 Additional information</td>
<td>n.a.</td>
</tr>
<tr>
<td>13.3 Packaging</td>
<td>Dispose of in accordance with local regulations</td>
</tr>
</tbody>
</table>
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 INFORMATION

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.