



**1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY**

- 1.1 Identification of the substance or preparation:** Trade Name: Colorfabb PA NEAT;  
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:** High performance thermoplastic filament for 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](mailto: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 |
- 2.3 Other hazards** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

- 3.1 Description** colorFabb PA NEAT is a polyamide based thermoplastic material.
- 3.2 Hazardous ingredients**
- | Substance name           | CAS number | Concentration | Classification | H-Phrases |
|--------------------------|------------|---------------|----------------|-----------|
| No hazardous ingredients | ---        | ---           | ---            | ---       |
- 3.3 Additional information** No further information due to IP.

#### 4. FIRST AID MEASURES

- 4.1 Skin contact** Do not use solvents or thinners. Molten material e.g. during printing, can cause burns. In case of burns cool immediately with plenty of water for at least 10 minutes. Do not remove solidified product. Seek medical attention.
- 4.2 Eye contact** Unlikely during normal use. If material particles get in contact with eyes (e.g. grinding), mechanical irritation might occur. Rinse thoroughly with plenty of water. Keep eyes wide open while rinsing.
- 4.3 Inhalation** Not likely during normal use. Long term overheating or burning of material can generate decomposition products. After inhalation of decomposition products/fumes, move to fresh air. If symptoms persist, call a physician.
- 4.4 Ingestion** Unlikely due to physical form. If symptoms occur, seek medical attention.
- 4.5 Note to physician** Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media** Dry chemical extinguishing media, foam, water spray or carbon dioxide
- 5.2 Extinguishing media not to be used for safety reasons** Water jet
- 5.3 Special hazards arising from the mixture** In case of fire or excessive high temperatures, generation and build-up of dangerous/toxic decomposition fumes is possible. Possible hazardous combustion products: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrogen sulphide, metal oxides, ammonia.
- 5.4 Protective equipment for fire fighters** In the event of fire, wear full protective clothing and self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions** None required; use adequate ventilation during printing; avoid dust formation and breathing dust.
- 6.2 Environmental precautions** Prevent material ending up in environment. Do not allow contact with soil, surface or ground water.
- 6.3 Cleanup, containment and disposal of spill** Sweep up or vacuum up spillage and collect in suitable container for disposal
- 6.4 Reference to other sections** For personal protection see Section 8. For disposal considerations see Section 13.

## 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Provide for appropriate exhaust ventilation at machine. Do not breath vapours/dust. Wear personal protective equipment.
- The material can accumulate static charge and can therefore cause electrical ignition. Take measures to prevent buildup of electrostatic charge.
- Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Keep away from food and drinks. When using, do not eat, drink, smoke.
- 7.2 Conditions for safe storage** Keep spools in original box and in a cool and well ventilated place. Keep away from heat and sources of ignition. Keep away from direct sunlight.
- 7.3 Specific use** Product is meant to be used for FDM 3D printing only. For further specifics on use, see technical datasheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters** Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**
- Appropriate Engineering Controls** Provide sufficient air exchange and/or exhaust in work rooms. Provide appropriate exhaust ventilation at machinery
- Personal protection measures**
- Eye protection** Not required (for FDM printing)
- Hand protection** Not required (for FDM printing); when handling molten material wear protective gloves to prevent burns.
- 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

- Appearance** Solid, Filament winded onto spool
- Colour** Black
- Odour** None

<b>pH</b>	Not determined
<b>Melting point</b>	Approx. 230 °C
<b>Boiling point</b>	Not determined
<b>Flash point</b>	>420°C
<b>Flammability</b>	No data available
<b>Upper explosion limits</b>	No data available
<b>Lower explosion limits</b>	The product is not explosive by itself, but it may form explosive dust.
<b>Vapour pressure</b>	Not determined
<b>Relative density</b>	No data available
<b>Density</b>	1.12 – 1.15g/cm <sup>3</sup> (20 °C)
<b>Solubility</b>	Insoluble
<b>Ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	>320°C
<b>Viscosity</b>	Not applicable
<b>Conductivity</b>	Not determined

**9.2 Important health, safety and environmental information**

**Softening point** >200 °C

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**10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	No decomposition if stored and applied as directed
<b>10.2 Chemical stability</b>	The product is chemical stable
<b>10.3 Possibility of hazardous reactions</b>	Finely dispersed particles form explosive mixtures with air Burning produces noxious and toxic fumes.
<b>10.4 Conditions to avoid</b>	Keep away from heat and sources of ignition. Avoid dust formation Avoid moisture
<b>10.5 Incompatible materials</b>	No data available
<b>10.6 Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, unburned hydrocarbons (smoke), nitrogen oxides, hydrogen cyanide, styrene, sulphur oxides, metal oxides, ammonia.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Acute oral toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available
<b>Acute dermal toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No known irritant effects; dust may cause irritation of respiratory tract
<b>Serious eye damage/eye irritation</b>	Dust may cause mechanical irritation of the eyes
<b>Respiratory or skin sensitisation</b>	No known sensitizing effect
<b>Germ cell mutagenicity</b>	
Genotoxicity in vitro	No data available
Genotoxicity in vivo	No data available
<b>Carcinogenicity</b>	Contains no ingredient listed as carcinogenic
<b>Reproductive toxicity</b>	No data available
<b>STOT – single exposure</b>	No data available
<b>STOT – repeated exposure</b>	No data available
<b>Aspiration toxicity</b>	No data available

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

- Toxicity to fish No data available
- Toxicity to daphnia and other aquatic invertebrates No data available
- Toxicity to algae No data available
- Toxicity to microorganisms No data available

**12.2 Persistence and degradability** No data available on biodegradability

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available

**12.5 Results of PBT and vPvB assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

**12.6 Other adverse effects** Material should not be released into the environment

**12.7 Additional ecotoxicological information** ---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods** Dispose of in accordance with European Directives on waste and in accordance with local and national regulations.

**13.2 Additional information** n.a.

**13.3 Packaging** Dispose of packaging 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.

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.