

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Identification of the substance or

preparation:

Colorfabb LW-PLA. High quality Expanding PLA 3D printing filament;

using an active foaming technology to achieve light weight, low

density PLA parts.

All information in this SDS is applicable to the PLA 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.

NL-5916 PJ Venlo, 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 The material is not hazardous according EC 1272/2008

2.2 Label elements Health hazards: Not hazardous

Environmental hazards Not hazardous

Hazard symbol None
Signal Word None
Hazard Statement None
Precautionary statement None

PBT and vPvB substances Material does not contain PBT and vPvB

substances

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Desciption The material is a mixture of chemical substances in a solid polymer

matrix.

3.2 Hazardous ingredients

Substance nameCAS numberConcentrationClassificationH-PhrasesNo hazardousN/AN/ANoneNone

ingredients

3.3 Additional information The material does not contain amounts of substances fulfilling the

criteria of hazard classification.

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4. FIRST AID MEASURES

4.1 Skin contact If burned by contact with molten material, cool down with water for at least 10

minutes. In case of severe burns, do not remove molten material from skin and

consult a physician.

4.2 Eye contact Not likely due to physical state. Grinding or pelletizing of filament may lead to fine

dust particles which can cause eye irritation. Wash with plenty of water and get

medical attention if symptoms persist.

4.3 Inhalation Not likely due to physical state.

4.4 Ingestion Not likely due to physical state. Material is not expected to be absorbed by

gastrointestinal, No first aid measures necessary.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media Water mist, carbon dioxide, foam, dry powder

5.2 Extinguishing media not to be used for safety

reasons

High pressure water jet

5.3 Special hazards arising from the mixtureThermal decomposition and burning may release oxides

of carbon and nitrogen, acetaldehyde

5.4 Protective equipment for fire fightersUse full protective clothing for chemicals and a self-

contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions Avoid dust formation and static discharge. Do not

overheat material

6.2 Environmental precautions Should not be released into environment. Do not allow

material to enter drains or water courses.

6.3 Cleanup, containment and disposal of spillAvoid dust formation. Sweep up into suitable container

for disposal.

6.4 Reference to other sections See section 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handlingHandle in accordance with good industrial hygiene and

safety practice. Do not eat, drink or smoke at the workplace. Avoid dust formation by cutting or grinding.

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During printing, ensure good ventilation and local

exhaust.

7.2 Conditions for safe storageTo ensure technical integrity of the product store in the

original container/box and keep at temperatures below 50°C and in a dry place. Protect from moisture, product

may be hygroscopic

7.3 Specific useUnder anticipated conditions of use no further measures

required. No available exposure scenario's.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits No information available

Biological limit values Not established

Derived No Effect Level (DNEL)No information available

8.2 Exposure controls

Appropriate Engineering Controls Keep at temperatures below 250°C. Ensure adequate

ventilation in confined areas.

Individual protection measures

Eye protectionNot required (for FDM printing)Hand protectionNot required (for FDM printing)Skin protectionNot required (for FDM printing)Respiratory protectionNot 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 controlsDo not allow product to enter drains, water courses or soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Density 1.2-1,3 g/cm³ **Odour** Negligible

9.2 Important health, safety and environmental information

Glass transition Approx. 55°C

Boiling point n.a.

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Auto flammability>450°CBulk densityn.a.Melting pointn.a.pH-valuen.a.Viscosityn.a.

Flashpoint Non-volatile burning solid

Solubility in water Negligible **Vapour pressure** n.a.

10. STABILITY AND REACTIVITY

10.1 Reactivity Not reactive under normal handling conditions

10.2 Chemical stability Stable for handling under normal handling conditions

10.3 Possibility of hazardous reactionsNo hazardous reactions with other chemicals known, under normal

handling conditions.

10.4 Conditions to avoidDo not grind, pelletize or mill the material . Avoid temperatures

above 250°C.

10.5 Incompatible materials Avoid water which can cause degradation of material. Material can

react with strong oxidizers.

10.6 Hazardous decomposition products Hazardous decomposition products may form under fire

conditions: carbon dioxide, acetaldehyde.

11. TOXICOLOGICAL INFORMATION

LD 50 (Rat oral) >5000 mg/kg (PLA)

Skin irritation Not tested (not to be expected)

Eye irritation Not tested (not to be expected)

Skin sensitation Not tested (not to be expected)

Respiratory sensitationNot tested (not to be expected)

CMR effects No information available

General remarksNo harmful, toxic and sensitive effects have been reported to

date

Information listed in this section is transferred from safety data

from the ingredients of this product.

12. ECOLOGICAL INFORMATION

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12.1 Aquatic toxicityNo information available

12.2 Persistence and degradability Minimal degradation

12.3 Bioaccumalative potentialNo information available

12.4 Mobility in soilNo information available

12.5 Results of PBT and vPvB assessment No information available

12.6 Other adverse effectsNo adverse effects known to date

12.7 Additional ecotoxicological information The material is practically non soluble in water and solid.

Therefore, under environmental conditions, no detrimental effects on plants, animals and micro-organisms are to be

expected.

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

15.2 Chemical safety assessment A safety assessment is not required

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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

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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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