

SAFETY DATA SHEET



add:north
3 D - F I L A M E N T

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1. Identification of the substance or preparation:

ESD-PETG 3D printing filaments; black color. The information in this SDS is applicable only to the filament material, not the spool itself

1.2. Use of the substance or preparation:

FDM 3D printing

1.3. Company identification:

Add North 3D AB
Ulricehamnsvägen 11
51462 Ölsremma
SWEDEN

Tel: +46709109787
E-mail: info@addnorth.com

1.4 Emergency telephone:

Add North 3D AB: +46709109787

2. HAZARDS IDENTIFICATION

2.1. Classification

The material is not hazardous according to 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 & vPvP substances:	Material does not contain PBT & vPvP substance

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1. Description

The material is a mixture of chemical substances in a solid polymer matrix

3.2. Hazardous ingredients

Substance name	CAS number	Concentration	Classification	H-phrases
PETG resin	Proprietary	>90%	None	None
Carbon additives	Proprietary	<10%	None	None

3.3. Additional information

The material does not contain substances fulfilling the criteria of hazard classification

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 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

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5.3. Special hazards arising from the mixture

Thermal decomposition and burning may release oxides of carbon and nitrogen, acetaldehyde

5.4. Protective equipment for fire fighters

Use full protective clothing for chemicals and a self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

No measures required

6.2. Environmental precautions

Material not regarded as dangerous for the environment

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 to local regulations, or via RE-ADD if applicable

6.4. Reference to other sections

See section 8 and 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle 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. During printing, ensure good ventilation and local exhaust.

7.2. Conditions for safe storage

To 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 use

Under anticipated conditions of use, no further measures are required. No available exposure scenarios.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Exposure limits	Material contains no substances with occupational exposure limit values
Biological limit values	Not established
Recommended monitoring procedures	No information available
Derived No Effect Level	No information available

8.2. Exposure controls

Appropriate Engineering Controls	Print at temperatures below 290°C. Ensure adequate ventilation in confined areas
Individual 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	1.3 g/cm ³
Odour	Negligible

9.2. Important health, safety and environmental information

Glass transition	~ 85°C
Boiling point	N/A
Auto flammability	>450°C

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Bulk density	N/A
Melting point	N/A
pH-value	N/A
Viscosity	N/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 reactions	No hazardous reactions with other chemicals known, under normal handling conditions
10.4. Conditions to avoid	Do not grind, pelletize or mill the material. Avoid temperatures above 290°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 (PETG)
Skin irritation	Not tested (not to be expected)
Eye irritation	Not tested (not to be expected)
Skin sensitisation	Not tested (not to be expected)
Respiratory sensitisation	Not tested (not to be expected)
CMR effects	None of the ingredients is listed as CMR substance

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General remarks

No 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

12.1. Aquatic toxicity	No information available
12.2. Persistence and degradability	Minimal degradation
12.3. Bioaccumulative potential	No information available
12.4. Mobility in soil	No information available
12.5. Results of PBT and vPvB assessment	Product does not contain PBT or vPvB substances
12.6. Other adverse effects	No 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
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Safety datasheet conform regulation (EC) 2015/830

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14.2. UN-NR Not listed / free

14.3. ICAO / IATA-DGR Not listed / free

14.4. GGVSEE / IMDG-CODE Not listed / free

15. REGULATORY INFORMATION

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

Restrictions of use None

Other regulation No information available

15.2. Chemical safety assessment A safety assessment is not required

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

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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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