

**1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY****1.1. Identification of the substance or preparation:**

Rigid X 3D printing filament; all colors. The information in this SDS is applicable only to the PLA filament material, not the spool itself

**1.2. Use of the substance or preparation:**

FDM/FFF 3D printing

**1.3. Company identification:**

Add North 3D AB  
Ulricehamnsvägen 11  
51462 Ölsremma  
SWEDEN

Tel: +46709109787

E-mail: [info@addnorth.com](mailto: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 and GHS

**2.2. Label elements**

Health hazards:	Not hazardous
Environmental hazards:	Nor hazardous
Hazard symbol:	None
Signal Word:	None
Hazard Statement:	None
Precautionary statement:	None
PBT & vPvP substances:	Material does not contain PBT & vPvB substance

**3. COMPOSITION AND INFORMATION ON INGREDIENTS****3.1. Description**

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

**3.2. Ingredients**

Substance name	CAS number	Concentration	Classification	H-phrases
PETG	Proprietary	Proprietary	None	None
Carbon fiber	Proprietary	Proprietary	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, get medical attention.

**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 mixture**

Thermal decomposition and burning may release oxides of carbon and nitrogen, hydrocarbons and ammonia

**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 is hygroscopic

**7.3. Specific use**

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

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1. Control parameters**

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

**8.2. Exposure controls**

<b>Appropriate Engineering Controls</b>	Keep at temperatures below 240°C (464°F). Ensure adequate ventilation in confined areas
<b>Individual protection measures</b>	
<b>Eye protection</b>	Not required (for FDM printing)
<b>Hand protection</b>	Not required (for FDM printing)
<b>Skin protection</b>	Not required (for FDM printing)
<b>Respiratory protection</b>	Not required (for FDM printing)
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product
<b>Environmental exposure controls</b>	Do not allow product to enter drains, water courses or soil

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. General information**

<b>Density</b>	>1 g/cm <sup>3</sup>
<b>Odour</b>	Slight

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



<b>Boiling point</b>	N/A
<b>Auto flammability</b>	>400°C
<b>Bulk density</b>	N/A
<b>Melting point</b>	N/A
<b>pH-value</b>	N/A
<b>Viscosity</b>	N/A
<b>Flashpoint</b>	Non-volatile burning solid
<b>Solubility in water</b>	Insoluble
<b>Vapour pressure</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	Not reactive under normal handling conditions
<b>10.2. Chemical stability</b>	Stable for handling under normal handling conditions
<b>10.3. Possibility of hazardous reactions</b>	No hazardous reactions with other chemicals known, under normal handling conditions
<b>10.4. Conditions to avoid</b>	Do not grind, pelletize or mill the material. Avoid temperatures above 290°C
<b>10.5. Incompatible materials</b>	Avoid water which can cause degradation of material. Material can react with strong oxidizers
<b>10.6. Hazardous decomposition products</b>	Hazardous decomposition products may form under fire conditions: carbon dioxide, acetaldehyde

## 11. TOXICOLOGICAL INFORMATION

<b>LD 50 (Rat oral)</b>	Not tested (not to be expected)
<b>Skin irritation</b>	Not tested (not to be expected)
<b>Eye irritation</b>	Not tested (not to be expected)
<b>Skin sensitisation</b>	Not tested (not to be expected)
<b>Respiratory sensitisation</b>	Not tested (not to be expected)
<b>CMR effects</b>	Non of the ingredients is listed as CMR substance

**General remarks**

No harmful or toxic effects have been reported to date. The caprolactam may cause slight irritation to the skin and eyes via excessive exposure. Information listed in this section is transferred from safety data from the ingredients of this product.

**12. ECOLOGICAL INFORMATION**

<b>12.1. Aquatic toxicity</b>	No information available
<b>12.2. Persistence and degradability</b>	Minimal degradation
<b>12.3. Bioaccumulative potential</b>	No information available, unlikely
<b>12.4. Mobility in soil</b>	No information available
<b>12.5. Results of PBT and vPvB assessment</b>	Product does not contain PBT or vPvB substances
<b>12.6. Other adverse effects</b>	No adverse effects known to date
<b>12.7. Additional ecotoxicological information</b>	The material is 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**

<b>13.1. Waste treatment methods</b>	Dispose of in accordance with local regulations, or within RE-ADD (if applicable)
<b>13.2. Additional information</b>	N/A
<b>13.3. Packaging</b>	Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION**

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Revision date: 4 September, 2019

Replaces version of N/A

# SAFETY DATA SHEET



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

14.1. RID / ADR	Not listed / free
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



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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