

# SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

### 1.1. Identification of the substance or preparation:

Add North OBC Polyethylene 3D printing filament; all colors. The information in this SDS is applicable only to the OBC Polyethylene 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: +46734003878  
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 |
|----------------|--------------|---------------|----------------|-----------|
| Polyolefin     | Confidential | >=99%         | 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. If ingested, drink plenty of water.

**5. FIRE FIGHTING MEASURES****5.1. Extinguishing media**

High pressure water jet

**5.2. Extinguishing media not to be used for safety reasons**

Water mist, carbon dioxide, foam, dry powder

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## 5.3. Special hazards arising from the mixture

Thermal decomposition and burning may release oxides of carbon and 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

Avoid contact with sewers, soil & waterways. Contact authorities if environmental pollution has occurred.

### 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. Beware electrostatic charges

### 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.

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## 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 280°C.<br>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> | >0.8 g/cm <sup>3</sup> |
| <b>Odour</b>   | None                   |

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

**Boiling point**  
**Auto flammability**

|   |     |                |                  |
|---|-----|----------------|------------------|
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|                            |                            |
|----------------------------|----------------------------|
| <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>          | N/A                        |
| <b>Solubility in water</b> | Non-volatile burning solid |
| <b>Vapour pressure</b>     | Insoluble                  |
|                            | N/A                        |

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 300°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>               | None of the ingredients is listed as CMR substance |

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## General remarks

No harmful or toxic 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

|  |   |
|--|---|
| <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, |
| <b>13.2. Additional information</b>  | N/A  |
| <b>13.3. Packaging</b>               | Dispose of in accordance with local regulations  |

## 14. TRANSPORT INFORMATION

### 14.1. RID / ADR

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|                                 |                   |
|---------------------------------|-------------------|
| <b>14.2. UN-NR</b>              | Not listed / free |
| <b>14.3. ICAO / IATA-DGR</b>    | Not listed / free |
| <b>14.4. GGVSEE / IMDG-CODE</b> | Not listed / free |
| Not listed / free               | Not listed / free |

## 15. REGULATORY INFORMATION

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

|   |                                     |
|---|-------------------------------------|
| <b>Restrictions of use</b>              | None                                |
| <b>Other regulation</b>                 | No information available            |
| <b>15.2. Chemical safety assessment</b> | A safety assessment is not required |

## 16. OTHER INFORMATION

|  |   |
|--|---|
| <b>Relevant H-phrase:</b>                    | None  |
| <b>Changes compared to previous version:</b> | N/A   |
| <b>Abbreviations:</b>                        | REACH: Registration, Evaluation, Authorisation and restriction of chemical substances<br>EC: European Community<br>STOT: Specific Target Organ Toxicity<br>PBT: Persistent, Bioaccumulating, Toxic vPvB: very Persistent, very Bioaccumulating ADR: Accord européen relative au transport international des marchandises Dangereuses per Route<br>ADN: Accord européen relative au transport international des marchandises Dangereuses per voies de Navigation intérieures<br>RID: Regulations for the international Transport of dangerous goods by rail IMDG: International maritime dangerous goods code<br>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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|   |     |                |                  |
|---|-----|----------------|------------------|
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