

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 1 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

Trade name: Octofiber Wood filament for 3D printing  
Registration number: -  
Synonyms: None

1.2. Relevant identified uses 3D Printer Filament for Material Extrusion

### 1.3 Details of the supplier of the safety data sheet:

Supplier:  
Name: The Plastic Enterprise BV  
Address: Mauritskade 55, 1092 AD Amsterdam, The Netherlands  
E-Mail (competent person) sds@theplasticenterprise.eu

1.4 Emergency telephone number: +31 85 105 05 96

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture:

Not dangerous according to Directive 67/548/EEC.

### 2.2. Special advice on hazards

Danger of burns in contact with hot polymer and hazardous vapors in case of burning.

## SECTION 3. Composition/information on ingredients

### 3.1 Chemical characteristics

Polymer-blend based on PLA filled with 30% woodfibres and additives.

### 3.2 CAS no

9051-89-2

### 3.3 Additional information

No harmful ingredients.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 2 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

On skin contact:

In case of contact with molten polymer immediately cool the skin with cold water.

Medical aid may be required to remove adhering material and for treatment of burns.

After inhalation:

After inhalation of decomposition gases or dust remove patient to fresh air. Contact a doctor in case of discomfort.

On ingestion:

No effects known. Rinse mouth with water and drink more water. Contact a doctor in case of discomfort.

On eyes contact:

Rinse open eyes thoroughly with water.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media:*

Water spray, Dry powder, Carbon dioxide (CO<sub>2</sub>).

*Unsuitable extinguishing media :*

Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

During incomplete combustion release of carbon monoxide, carbon dioxide and hydrocarbons.

### 5.3 Advice for fire fighters

Fire fighting measures

Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards:

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 3 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Use suitable protective clothing. Avoid eye contact and inhalation of dusts. Keep ignition sources away.

### 6.2. Methods for cleaning up

Sweep up material and place in a container, risk of slipping, Avoid ingress of material into drainage systems.

## **SECTION 7: Handling and storage**

### 7.1 Handling:

Avoid contact with molten polymer. Avoid generation of dust , inhalation of dusts. Keep ignition sources away.

### 7.2 Conditions for safe storage, including any incompatibilities

Protect against moisture. Store cool and keep packaging closed when not in use. Avoid sources of ignition.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

With suitable ventilation the threshold limits assumedly will not be reached. Avoid electrostatic charge by use of grounding cables.

### 8.2 Personal safety equipment

Use adequate safety equipment, e.g. protective clothing, eye protection glasses, heat protection gloves. In case of dust formation wear mask with particle filter.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 4 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Solid Filament
Odour	depending on product grade
Colour	depending on product grade
Odour threshold	No information available
pH	Not applicable
Melting/freezing point	140-150°C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	UEL: No data available LEL: No data available
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.1-1.2 g/cm <sup>3</sup>
Solubility(ies)	insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	No information available
Decomposition temperature	>230°C
Viscosity	Not applicable
Explosive properties	none
Oxidizing properties	none

# Safety Data Sheet

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Trade name: **Octofiber Wood**

Version: 2.1

Page 5 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

No information available

### 10.2. Chemical stability:

Material is stable under normal conditions.

### 10.3. Possibility of hazardous reactions:

No hazardous reactions observed under normal handling and storage conditions.

### 10.4. Conditions to avoid:

Avoid exposure to extreme heat and all sources of ignition. Thermal decomposition > 230°C.

### 10.5. Incompatible materials:

Strong oxidizing agents.

### 10.6. Hazardous decomposition products:

Carbon monoxide, tetrahydrofuran, low molecular weight oligomers, carbon dioxide.

## SECTION 11: Toxicological information

### *General information:*

Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure:

Inhalation:	No adverse effects due to inhalation are expected.
Skin contact:	No adverse effects due to skin contact are expected
Eye contact:	Direct contact with eyes may cause temporary irritation
Ingestion:	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

### 11.1 Information on toxicological effects

Dust can cause irritation of eyes, respiratory organs and skin.

After ingestion stomach pain or nausea are possible.

### 11.2 Other remarks

Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 6 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## **SECTION 12: Ecological information**

### 12.1 Toxicity

No negative ecological effects known at the present state of knowledge, test results are not available.

Due to insolubility in water most probably not hazardous to aquatic organisms..

### 12.2 Bio accumulative potential

Due to its consistency and insolubility in water biological accumulation is not expected.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues / unused products

Generation of waste should be minimized, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

Packaging

Packaging material has to be emptied completely and disposed in accordance with the regulations. Packaging can be recycled if not contaminated.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Octofiber Wood**

Version: 2.1

Page 7 of 7

Print date: 29.12.2017

Rev. date: 27.12.2017

## SECTION 14: Transport information

Product has been classified as being non-dangerous substance according to transport regulations ADR, ADNR, RID, IMDG, IATA/ICAO.

### 14.1 UN number

Not applicable.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing Group

Not applicable.

### 14.5 Environmental hazards

No additional data is available.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated.

## SECTION 15: Regulatory information

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

This product does not require a hazard warning label in accordance with EC Directives.

## SECTION 16: Other information

*This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006*

*The information provided in this Safety Data Sheet 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 relates only 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.*