

# SAFETY DATA SHEET FOR NON-WOVEN

Based on 100% FLAX Fibers

Version 1 vom 28.04.2020

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This document provides a Safety Data Sheet (SDS) for non-woven on a voluntary basis according to EDANA Product Stewardship recommendations, especially in safety requirement. The SDS is a mean of transferring essential hazard information from the supplier of a non-woven product to the recipient of the product. As non-wovens are generally not hazardous, SDS for non-wovens are not legally requested but must be considered as information. It is inspired from the EC recommendation for SDS.

The information contained in this SDS has been developed by the company on the express request of its customers and to the best of its knowledge. Therefore, the company does not assume any liability with respect to the correctness and/or completeness of the information provides by this SDS. The customer shall not be released from this duty to check all safety relevant properties of the delivered nonwovens and to refer to the official texts for full information on the local obligations.

## **1. Identification of the product and the company**

### **1.1. Product identifier**

Non-woven based on FLAX fibers.

### **1.2. Relevant identified uses of the substance or the mixture and the missadvised uses**

Non-woven product for industrial applications.

### **1.3. Company identification**

Name:	Norafin Industries (Germany) GmbH
Address:	Gewerbegebiet Nord 3 09456 Mildenau Saxony Germany
Phone number:	+49 (0) 37 33 55 07 0
Fax number:	+49 (0) 37 33 55 07 0

### **1.4. Emergency phone number**

Police:	110
Fire & Rescue Service:	112
Medical Emergency Service/ Physical Emergency Service:	116117
European Emergency Call:	112

Refer to the relevant national emergency number.

## **2. Hazard identification**

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

Not applicable.

### **2.2. Labelling**

Not applicable.

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## 2.3. Other dangers

No hazard under normal uses conditions.

Can be hazardous in case of thermal decomposition.

Fiber dust may cause irritations on eyes and respiratory organ.

Fiber dust may represent a fire hazard at sufficient concentrations and in presence of ignition sources.

## 3. Composition

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Flax is a natural product.

Substances	CAS #	EINECS #	Hazard	Percentage*
Cellulose	/	/	/	70-75%
Lignine	/	/	/	3-5%
Pentosane	/	/	/	12-20%
Ashes	/	/	/	1%

## 4. First aid measures

### 4.1. Description of the first aid measures

Under normal uses conditions:

- Inhalation: no specific measure to be taken,
- Skin contact: no specific measure to be taken,
- Eyes contact: no specific measure to be taken,
- Ingestion: no specific measure to be taken.

### 4.2. Most important symptoms and effects

Not applicable.

### 4.3. Indication of any immediate medical attention and particular treatment needed

Not applicable.

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## **5. Measures of fire fighting**

### **5.1. Extinguishing media**

Suitable extinguished media: Water, Foam, CO<sub>2</sub>, Powder, Sand

### **5.2. Particular danger resulting from substance or mixture**

In case of fire, CO<sub>2</sub>, CO, toxic gas and a minute amount of NO<sub>x</sub> and HCN may be released.  
Fire risk due to dust in high concentration.

### **5.3. Advises for fire fighters**

Specific precautions: toxic can be released, use self-contained breathing devices.

## **6. Accidental release measures**

### **6.1. Personal precaution, protective equipment and emergency procedures**

Not applicable.

### **6.2. Environmental precautions**

Not applicable.

### **6.3. Methodes and material for containment and cleaning up**

Avoid dust formation. Absorb dusts with a suction device provided with a high-quality particle filter (HEPA) or by wet sweeping.

### **6.4. Reference to other sections**

Not applicable.

## **7. Handling and storage**

### **7.1. Precautions of safe handling**

Accumulation of fiber dust may represent at sufficient concentrations a fire and explosion hazard. Remove ignition sources. Beware of electrostatic charges.  
In case of further processing, wear protective gloves.

### **7.2. Caution for safe storage, including any incompatibility**

Rolls packages must be stored in line with existing provisions. Avoid dust and protect against electrostatic charges and ignition sources.  
Non-woven material has to be stored clean and dry with a protection against direct sunlight.  
High humidity has to be avoided. The storage place has to be protected against frost and

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heat, the ideal storage temperature is around 20 °C (68°F). Keep away from mechanical influences.

Particularly light-sensitive non-wovens (meta aramid and para aramid) are supplied in UV-resistant packaging. Opened packages have to be sealed again with UV-resistant wrapping.

## 7.3. Specific end use

Not applicable.

## 8. Exposure controls / Personal protection

### 8.1. Control parameters

Control limit values for dust.

### 8.2. Exposition controls

Comply with national occupational threshold values for dust.

## 9. Physical and chemical properties

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

Appearance:	specific non-woven structure, natural colored light brown
Odor:	very light natural smell
pH-Value:	not applicable
Boiling point:	not applicable
Melting point:	not applicable
Decomposition temperature:	~180°C
Ignition temperature:	~500°C
Explosives properties:	not applicable
Oxidizing properties:	none
Saturation steam pressure:	not applicable
Density:	not applicable
LOI (Fibers):	not applicable
Solubility:	insoluble in water

### 9.2. Other information

Not applicable.

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## 10. Stability and reactivity

### 10.1. Reactivity

Not applicable.

### 10.2. Chemical stability

Under normal conditions: stable

### 10.3. Possibility of hazardous reactions

Not applicable.

### 10.4. Conditions to avoid

- Excessive humidity (>65%)
- Risk of explosion due to significant content of dust in the air

### 10.5. Incompatible materials

Strong acid, strong bases. Strong oxidation agents.

### 10.6. Hazardous decomposition products

- Carbon dioxide
- Nitrogen oxides (NO<sub>x</sub>)
- Hydrogen cyanide
- Ammonia, anhydrous
- Aldehydes hydrocarbons

## 11. Toxicological information

### 11.1. Information on toxic effects

Not applicable.

## 12. Ecological information

### 12.1. Toxicity

Not applicable.

### 12.2. Persistence and degradability

Flax fibers are bio-degradable.

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## 12.3. Bio accumulative potential

Not applicable.

## 12.4. Mobility in soil

Not applicable.

## 12.5. Results of Persistent Bioaccumulative Toxic and very Persistent very Bioaccumulative assessment

Not applicable.

## 12.6. Other adverse effects

Not applicable.

## 13. Disposal information

### 13.1. Waste treatment method

Waste must be eliminated in accordance with local legislation.

As non-hazardous solid waste, non-woven may be

- Disposed in a suitable refuse installation,
- Incinerated subject to local regulations.

Or can be recycled, or other valuable use.

## 14. Transport information

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard classes

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Not applicable.

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## **14.6. Special precautions for user**

Not applicable.

## **14.7. Transport in bulk according to the annex II of MARPOL 73/78 and the IBC code**

Not applicable.

## **15. Regulatory information**

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

Not applicable.

### **15.2. Chemical safety assessment**

Not applicable.

## **16. Other information**

Not applicable.

- This document is written in accordance with framework of European regulation EU 1272/2008 known as CLP – Classification, Labelling and Packaging of substances and mixtures.