

SAFETY DATA SHEET FOR NON-WOVEN

Based on a Mixture of Flax and Viscose Fibers

Version 1 vom 30.04.2020

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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 a mixture of Flax and Viscose 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.

3. Composition

3.1. Substances

Not applicable.

3.2. Mixtures

Main ingredient ¹⁾	Content	CAS #	EINECS #	Hazard	Percentage ²⁾
Flax	Cellulose	9004-34-6	232-674-9	/	70-75%
	Pentosane	/	/	/	12-20%
	Lignine	/	/	/	3-5%
	Ashes	/	/	/	1%
Viscose	Cellulose	9004-34-6	232-674-9	/	>98%
	Titanium dioxide	13463-67-7	236-675-5	/	<1%
	Finish	/	/	/	<1%

¹⁾**Main ingredient:** This product is based on a mixture of Flax and Viscose. The relevant percentage is always stated on delivery papers.

²⁾**Percentage:** The percentage stated here applies only to the relevant main ingredient.

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, CO₂, Powder, Sand

5.2. Particular danger resulting from substance or mixture

In case of fire, CO₂, CO, toxic gas and a minute amount of NO_x 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, protectiv equipment and emergency procedures

Not applicable.

6.2. Environmental precautiones

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 protectice cloves.

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 colored nonwoven structure
Odor:	natural smell
pH-Value:	not applicable
Boiling point:	not applicable
Melting point:	not applicable
Decomposition temperature:	~175°C
Ignition temperature:	~460°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.

10. Stability and reactivity

10.1. Reactivity

Not applicable.

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10.2. Chemical stability

Under normal conditions: stable

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Exposing to high temperature or long exposing to light may occur color changes and reduces tenacity of non-woven.

Exposing to excessive humidity has to be avoided.

10.5. Incompatible materials

Strong acid, strong bases and strong oxidation agents. Caustic soda in a concentration above 8% will attack the non-woven structure, especially the fibers.

10.6. Hazardous decomposition products

- Carbon dioxide
- Nitrogen oxides (NO_x)
- 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 and Viscose is ecologically safe and biodegradable.

12.3. Bio accumulative potential

Not applicable.

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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.

14.6. Special precautions for user

Not applicable.

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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.