

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 1 of 9

**Date: 1st September 2022**

**CORDENKA**

### **1 Name of the material or blend and of the company**

#### **1.1 Product identifier**

Fibre material	
1.1.1. Presentation	Impregnated fabric made of multifilament yarn
1.1.2. Fibre type	Polyamide
1.1.3. Chemical designation	Nylon 6 (PA6) / Polyhexamethylenedipinediamide (PA6.6) 25038-54-4 (PA6) / 32131-17-2
1.1.4. CAS number	
1.1.5. Trade name and synonyms	CORDENKA®, PA6, PA6.6

#### **1.2 Relevant identified use of the material or blend and uses that are not recommended**

Relevant identified use: Industrial applications, reinforcement of rubber for instance in the tyre industry, brake hose production and composite plastics

#### **1.3 Details on the supplier providing the safety data sheet**

1.3.1. Manufacturer / supplier street / PO Box Zip code / City Country	Cordenka GmbH & Co. KG Industrie Center Obernburg 63784 Obernburg Germany
1.3.2. Area providing information	Telephone +49 6022 81 3264 Fax +49 6022 81 3260 info@cordenka.com www.cordenka.com

#### **1.4 Emergency number**

Cordenka GmbH & Co. KG Obernburg plant (DE) Telephone: +49 6022 81 2751 Monday through Friday from 8:00 AM to 4:00 PM German / English

### **2 Possible hazards**

#### **2.1 Classification of the material**

Designation in accordance with regulation (EC) no. 1272/2008  
Currently, there are no known health hazards when the fibre product is used as intended. This material is not rated under the CLP regulation

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 2 of 9

**Date: 1st September 2022**

and is not classified as a hazardous material under European law. Therefore, there is no legal requirement to prepare a safety data sheet. This is an article.

### **2.2 Labelling elements**

Designation in accordance with regulation (EC) no. 1272/2008:	n/a
Hazard pictograms and signal word:	n/a
Hazard information:	n/a
Safety information:	n/a

### **2.3 Other hazards:**

Unknown.

## **3 Composition/component information**

### **3.1 Composition**

3.1.1	Polymer	Registration no. 25038-54-4 (PA6)	> 90 - 95 %
		32131-17-2 (PA6.6)	> 90 - 95 %
3.1.2	Additive	Avivage	approx. 1 %
3.1.3	Other components	RFL coating	2-8 %
3.1.4	Preparation		

PA6 is produced from  $\epsilon$ -Caprolactam [CAS No. 24993-04-2].  
PA6.6 is produced from adipic acid and hexamethylenediamine.  
The fibre product is non-toxic. An impregnation is applied to the fibre product in order to improve its adhesiveness in a rubber matrix. The impregnation is made of latex and resin, whereby the resin components are formed by a reaction between resorcinol and formaldehyde. The reaction is so advanced that the original low-molecular organic components are no longer present in relevant quantities.

Currently, there are no known health impacts when the impregnated fibre product is used as intended.

## **4 First aid measures**

### **4.1 Description of first aid measures**

#### **Inhalation**

If the stipulated maximum workplace concentration values are complied with, then inhaling this product is unlikely to be hazardous. Therefore, no special handling is required.

Airborne fibres, dust and decomposition products must be avoided by means of air extraction and ventilation. Anyone who has been exposed to excessive quantities of fibrous dust or airborne fibres should move out into the fresh air, and, in case a cough or other symptoms develop, should seek medical care.

**C  
O  
R  
D  
E  
N  
K  
A**

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 3 of 9

Date: 1st September 2022

### **Eyes**

Eyes should be rinsed with lots of water immediately. Should irritation persist, then seek medical care, please.

### **Skin**

Wash using soap and water. Seek medical care if irritation persists or develops.

### **Swallowing**

No specific precautions required, seek medical care if necessary.

## **4.2 Most significant acute and delayed symptoms and effects**

Unknown

## **4.3 Indications for immediate medical assistance or speciality treatment**

Unknown

## **5 Fire fighting measures**

### **5.1 Extinguishing agents**

Suitable: All the standard extinguishing agents; extinguishing agents are to be suitable for the environment

Unsuitable: Water, if the fire is caused by an electrical short-circuit.

### **5.2 Particular hazards generated by the material**

None

**Flash point:** over 400 °C  
**Ignition temperature:** approx. 450 °C  
**Decomposition temperature:** over 310 °C

#### **Hazardous combustion products:**

Carbon dioxide, carbon monoxide, nitrogen oxide, hydrocyanic acid, and low-molecular decomposition products in some cases.

The fire will generate poisonous emissions. The product burns with a high flame and produces poisonous gray smoke; the product leaves a black residue.

**C  
O  
R  
D  
E  
N  
K  
A**

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 4 of 9

**Date: 1st September 2022**

### **Uncommon fire and explosion hazards:**

Accumulated fibre dust and dust concentrated in the air may pose a fire hazard, if the concentration is too high. Keep ignition sources away. Use caution to avoid electrostatic charges. Remove fibre dust with a suitable vacuum cleaner.

### **5.3 Information for fire-fighting measures**

When fighting a fire in a closed room, use respirators, which are not dependent on the ambient air.

## **6 Measures in case of unintentional release**

### **6.1 Personal precautionary measures and measures in case of an emergency**

Not required

### **6.2 Environmental protection measures**

No specific measures required.

### **6.3 Methods for material retention and cleaning**

Before cleaning, observe the sections "Fire fighting measures" and "Handling and storage". Use appropriate personal protective equipment during cleaning.

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

Observe the protective measures under 7, 8 and 13.

## **7 Handling and storage**

### **7.1 Protective measures for safe handling**

#### **Safe handling information**

Cordenka® fabric rolls may only be transported individually.

**C  
O  
R  
D  
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N  
K  
A**

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

**C  
O  
R  
D  
E  
N  
K  
A**

Page 5 of 9

**Date: 1st September 2022**

### **7.2 Conditions for safe storage in consideration of incompatibilities and requirements for storage rooms**

CORDENKA® products must be protected against heat, cold, water, direct sunlight, and significant temperature fluctuations, as well as against the general influence of weather and pests by being stored in appropriate areas.

CORDENKA® fabric rolls must always be stored lying horizontally. They must be stored in a single layer, if their gross weight exceeds 1600 kg. If the gross weight is between 850 and 160 kg, then fabric rolls may also be stored in two stacked layers. The maximum permitted stack height is 250 cm. Fabric rolls with a gross weight of less than 850 kg may be stacked in a maximum of three layers. In this case, the maximum permitted stack height is 290 cm. Horizontal, suspended storage is also permitted if the suspension system is only in contact with the tree or sleeve.

The fabric rolls must always be secured against rolling away in an uncontrolled fashion. The fabric must always be protected against pressure points.

### **7.3 Specific end applications**

Uses are described in section 1.2. Further uses are described in the technical data sheet.

## **8 Exposure limit and personal protective measures**

### **8.1 Parameters to be monitored**

Airborne fibres, dust and decomposition products must be avoided by vacuuming and ventilation. The general dust limit values in the current TRGS 900 must be observed. Country-specific occupational exposure limit for dust are to be complied with.

### **8.2 Personal protective equipment**

#### **8.2.1 Eye protection**

Safety glasses with side shields are to be worn.

#### **8.2.2 Skin protection**

It is good industrial practice to minimise skin contact.

#### **8.2.3 Respiratory protection**

Respiratory protection should only be necessary, if required under national regulations (such as maximum workplace concentrations) or if the dust limit values in TRGS 900 are exceeded.

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 6 of 9

**Date: 1st September 2022**

### **9 Physical and chemical properties**

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

9.1.1	Specific weight	1.13 - 1.15 g/cm <sup>3</sup> (20 °C)
9.1.2	Melting range:	262-268 °C (PA6.6) / 210 – 220 °C (PA6)
9.1.3	Solubility in water:	negligible
9.1.4	Solvent content:	negligible
9.1.5	Ignition temperature:	approx. 450 °C
9.1.6	Decomposition temperature:	over 310 °C
9.1.7	Heat deflection temperature at 0.46 MPa:	approx. 210°C (PA6.6) / 180°C (PA6)
9.1.8	Heat deflection temperature at 1.8 MPa:	approx. 80°C (PA6.6) / 65°C (PA6)

#### **9.2 Other information**

9.2.1	Format	Impregnated fabric
9.2.2	Colour	Reddish brown or
9.2.3	Scent	Odourless

### **10 Stability and reactivity**

#### **10.1 Reactivity**

Stable up to a temperatures of 310°C.  
PA6 may melt over approx. 200°C and PA6.6 may melt above 250°C.

#### **10.2 Chemical stability:**

Stable up to a temperatures of 310°C.

#### **10.3 Possibility of hazardous reactions**

Stable up to temperature of 310°C. Temperatures over 310°C, open flames and contact with oxidizing agents, strong bases, and acids should be avoided.  
No hazardous reactions are expected, if used properly.

#### **10.4 Conditions to be avoided**

See section 7, 10.1 to 10.3

#### **10.5 Incompatible materials**

See section 7, 10.1 to 10.3

**C  
O  
R  
D  
E  
N  
K  
A**

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 7 of 9

**Date: 1st September 2022**

### **10.6 Hazardous decomposition products**

See section 5, 10.1 to 10.3

## **11 Data regarding toxicology**

### **11.1 Information on toxicological effects**

The fibre product (polymer) is non-toxic. The impregnation is up to 8 %.

Currently, there are no known health impacts when the fibre product is used as intended.

## **12 Environmental information**

### **12.1 Toxicity**

The fibre product (polymer) - fabric is harmless to the environment.

If the product is processed using water, then the waste water must be fed into a cleaning system fulfilling official regulations.

### **12.2 Persistence and degradation**

Unknown.

### **12.3 Bio-accumulation potential**

Unknown.

### **12.4 Soil mobility**

The material is not mobile in the ground.

### **12.5 Results of the PBT and vPvB assessment**

In accordance with available information, the criteria for classification as a PBT or vPvB are not fulfilled, since the product is not a hazardous material.

### **12.6 Other harmful impacts**

No relevant data available, as this does not concern a hazardous substance.

**C  
O  
R  
D  
E  
N  
K  
A**

# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 8 of 9

**Date: 1st September 2022**

### **13 Information on disposal**

#### **13.1 Waste treatment process**

The fibre product can be disposed of as non-hazardous waste in a licensed system in compliance with local official regulations.  
The European waste code is 040209.

### **14 Transportation information**

#### **14.1 UN number**

Omitted in accordance with ADR, ADN, RID, IMDG-Code, ICAO-TI and IATA-DGR

#### **14.2 Proper UN shipping name**

Omitted in accordance with ADR, ADN, RID, IMDG-Code, ICAO-TI and IATA-DGR

#### **14.3 Transportation hazard classes**

Omitted in accordance with ADR, ADN, RID, IMDG-Code, ICAO-TI and IATA-DGR

#### **14.4 Packaging group**

Omitted in accordance with ADR, ADN, RID, IMDG-Code, ICAO-TI and IATA-DGR

#### **14.5 Environmental hazards**

Omitted in accordance with ADR, ADN, RID, IMDG-Code, ICAO-TI and IATA-DGR

Other information: Not a hazardous material according to the regulations indicated above.

#### **14.6 Special precautionary measures for the user**

Not applicable.

#### **14.7 Bulk transport according to Annex II to MARPOL Convention 73/78 and according to the IBC code**

Not applicable.

**C  
O  
R  
D  
E  
N  
K  
A**



# Safety data sheet

in accordance with regulation (EC) no. 1907/2006

## **CORDENKA® impregnated polyamide fabric (PA6.6 /PA6)**

Page 9 of 9

**Date: 1st September 2022**

### **15 Legal regulation**

#### **15.1 Regulations on safety, health and environmental protection/specific legal regulations for the material**

The fibre product is neither a hazardous substance nor a hazardous product in terms of national and international laws, ordinances and regulations.

The fibre is persistent and degrades slowly.

#### **15.2 Material safety assessment**

The fibre product is not listed as a hazardous substance and does not contain SVHCs exceeding their respective legally nominal limits. Therefore no further material safety assessment has to be conducted.

### **16 Other information**

The information in this safety data sheet applies only to the fibre product described here, and not to the product used in combination with any other material or any other preparation, or in another product or in any process.

The safety data sheet is designed to provide appropriate information to commercial users of chemical fibres, in order to protect personnel and the environment. It is not designed for private consumers.

The information in this safety data sheet represents the current knowledge of the entity which issued it on the date of issue. It does not represent contractually assured product characteristics.

We would like to expressly note that Polyamide yarn is not a hazardous material, and therefore no safety data sheet must be prepared in accordance with REACH 1907/2006/EC. This safety data sheet has only been prepared upon request by the customer.

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