# Safety Data Sheet

**According to Regulation (EC) no. 1907/2006**

# CORDENKA® impregnated rayon cord (rayon)



**Date: 01 September 2022**

## 1 Designation of the material or composite and of the company

### 1.1 Product identifier

**Fibre product**

| | | |
|---|---|---|
| 1.1.1. | Presentation | Impregnated cord made from multifilament yarn |
| 1.1.2. | Fibre class | Viscose, high-strength |
| 1.1.3 | Chemical designation | Regenerate cellulose, rayon |
| 1.1.4 | CAS number | 61788-77-0 |
| 1.1.5 | Trade name and synonyms | CORDENKA®, Reyon, Rayon |

### 1.2 Relevant identified use of the material or composite and uses which are not recommended

Relevant identified use: Industrial usage, reinforcement of rubber e.g. in the tyre industry, brake hose manufacture and composite plastics

### 1.3 Details regarding the supplier providing the Safety data sheet

| | | |
|---|---|---|
| 1.3.1 | Manufacturer / supplier<br>Street / PO Box<br>Post code / Place<br>Country | Cordenka GmbH & Co. KG<br>Industrie Center Obernburg<br>63784 Obernburg<br>Germany |
| 1.3.2 | Division issuing information | Telephone +49 6022 81 3264<br>Fax +49 6022 81 3260<br>info@cordenka.com<br>www.cordenka.com |

### 1.4 Emergency number

Cordenka GmbH & Co. KG
Obernburg works (DE)
Telephone: +49 6022 81 2751
Monday to Friday from 08:00 until 16.00 hrs
German / English

## 2 Possible hazards

### 2.1 Classification of the material

Labelling according to Ordinance (EC) no. 1272/2008
If the fibre product is used according to its intended purpose, no impairments to health are known to date. This material is not classified in accordance with the CLP Ordinance and pursuant to European legislation is not classified as a hazardous substance. The creation of a safety data sheet is therefore not legally stipulated.

### 2.2 Labelling elements

| | |
|---|---|
| Labelling according to Ordinance (EC) no. 1272/2008: | n/a |
| Hazard pictograms and signal words: | n/a |
| Hazard information: | n/a |
| Safety information: | n/a |

### 2.3 Other hazards:

Rayon contracts when coming into contact with water.

## 3 Composition/data regarding components

### 3.1 Composition

| | | | |
|---|---|---|---|
| 3.1.1 | Polymer | Registration no. 61788-77-0 | > 93 - 95 % |
| 3.1.2 | Additives | Avivage | approx. 0.25 % |
| 3.1.3 | Other components | RFL coating- | 3-7 % |

3.1.4 **Preparation**
The fibre product is non-toxic. To improve adhesion in a rubber matrix, an impregnation has been applied to the fibre product. The impregnation comprises of latex and resin, whereby the resin component is formed by means of a reaction between resorcinol and formaldehyde. The reaction is so far advanced that the originally-existing low-molecular organic components are no longer present in relevant quantities.

If the impregnated fibre product is used according to its intended purpose, no impairments to health are known to date.

## 4 First aid measures

### 4.1 Description of first aid measures

#### Inhalation

A hazard due to inhalation of this product is improbable in case of compliance with any stipulated MAC values. Therefore special treatment is not necessary.
Air-borne fibres, dust and decomposition products are to be prevented by means of air extraction and ventilation. Anyone who has been exposed to excessive quantities of fibrous dust or air-borne fibres should move out into the fresh air, and, in case a cough or other symptoms develop, should seek medical care.

#### Eyes

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

### Skin

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

### Swallowing

No special precautions are necessary, seek medical advice if required.

## 4.2 Most important acute and delayed symptoms and effects

Unknown

## 4.3 Information regarding emergency medical assistance or special 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**

| | |
|---|---|
| **Flashpoint:** | Not determined<br>Product will burn in a fire. |
| **Ignition temperature:** | Approx. 290 °C |
| **Decomposition temperature:** | From 175 °C |

**Hazardous combustion products:**
Carbon dioxide, carbon monoxide, partly low-molecular decomposition products.

**Unusual fire and explosion hazards:**
An accumulation of fibrous dust and dust concentration in the atmosphere could present a fire hazard. Keep ignition sources away. Observe the effect of electrostatic charges. Fibrous dust is to be removed by means of an appropriate extraction system.

## 5.3 Information for fire-fighting measures

In case of fire-fighting in enclosed spaces, self-contained breathing apparatus is to be used.

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## 6 Measures in case of unintentional release

### 6.1 Personal precautionary measures and procedures to be used in case of emergencies

Not required

### 6.2 Environmental protection measures

No special measures required.

### 6.3 Methods for material retention and cleaning

Prior to cleaning, take the sections "Fire-fighting measures" and "Handling and storage" into consideration. Use appropriate "personal protection equipment" during cleaning.

### 6.4 Reference to other sections

Observe the protection measures under 7, 8 and 13.

## 7 Handling and storage

### 7.1 Protection measures for safe handling

**Information regarding safe handling**

The transport of pallets with Cordenka® cord may occur with a maximum of two layers.

### 7.2 Conditions for safe storage under consideration of incompatibilities and requirements on storage areas

CORDENKA® products must be protected by means of appropriate storage against heat, cold, moisture, direct solar radiation and extreme climatic fluctuations, and in general climatic influences and pest infestation.

Pallets with Cordenka® cord should be stored with a maximum of two pallets on top of each other.

### 7.3 Specific end applications

The applications are described in Section 1.2. Further uses can be found in the Technical data sheet.

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## 8 Exposure limitations and personal protection measures

### 8.1 Parameters to be monitored

Prevent air-borne fibres, dust and decomposition products by means of extraction and ventilation systems. The occupational exposure limit for dust are to be complied with.

### 8.2 Personal protection 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 corresponding regulations (e.g. MAC values) are established or dust limit values according to TRGS 900 are exceeded.

## 9 Physical and chemical properties

### 9.1 Data regarding fundamental physical and chemical properties

| | | |
|---|---|---|
| 9.1.1 | Specific weight: | 1.5 g /cm$^3$ (20 °C) |
| 9.1.2 | Melt range: | Decomposes from 175 °C |
| 9.1.3 | Solubility in water: | Negligible |
| 9.1.4 | Solvent content: | Negligible |
| 9.1.5 | Ignition temperature: | Approx. 290 °C |
| 9.1.6 | Decomposition temperature: | From 175 °C |

### 9.2 Other data

| | | |
|---|---|---|
| 9.2.1 | Form | Impregnated cord |
| 9.2.2 | Colour | Red-brown |
| 9.2.3 | Smell | Odourless |

## 10 Stability and reactivity

### 10.1 Reactivity

Stable up to temperatures of 175°C.

### 10.2 Chemical stability:

Stable up to temperatures of 175°C.

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### 10.3 Possible hazardous reactions

Stable up to temperatures of 175°C. Avoid temperatures greater than 175°C, naked flames and contact with oxidising substances, strong alkalis and acids.
No hazardous reactions are to be expected, in case of intended use.

### 10.4 Conditions to be avoided

See Sections 7, 10.1 to 10.3

### 10.5 Incompatible materials

See Sections 7, 10.1 to 10.3

### 10.6 Hazardous decomposition products

See Sections 5, 10.1 to 10.3

## 11 Data regarding toxicology

### 11.1 Data regarding toxicological effects

The fibre product (polymer) is non-toxic.

The proportion of impregnation is up to 7 %.

If the fibre product is used according to its intended purpose, no impairments to health are known to date.

## 12 Environmentally-related data

### 12.1 Toxicity

The fibre product (polymer) - fabric is ecologically harmless.
In case of further processing using water, the wastewater generated is to be guided into a purification plant in accordance with official regulations.

### 12.2 Persistence and degradability

Unknown.

### 12.3 Bioaccumulation potential

Unknown.

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### 12.4 Mobility in the ground

The material is not mobile in the ground.

### 12.5 Results of the PBT and vPvB assessment

According to the data present, the criteria for classification as PBT or vPvB are not fulfilled, as this does not concern a hazardous substance.

### 12.6 Other damaging effects

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

## 13 Information regarding disposal

### 13.1 Procedure for waste treatment

The fibre product can be disposed of as non-hazardous waste in a licensed plant under consideration of the local, official regulations.

## 14 Data regarding transportation

### 14.1 UN number

According to ADR, ADN, RID, IMDG Code, ICAO-TI and IATA-DGR n/a

### 14.2 UN proper shipping name

According to ADR, ADN, RID, IMDG Code, ICAO-TI and IATA-DGR n/a

### 14.3 Transportation hazard classes

According to ADR, ADN, RID, IMDG Code, ICAO-TI and IATA-DGR n/a

### 14.4 Packaging group

According to ADR, ADN, RID, IMDG Code, ICAO-TI and IATA-DGR n/a

### 14.5 Environmental hazard

According to ADR, ADN, RID, IMDG Code, ICAO-TI and IATA-DGR n/a

Other data: Not a hazardous good in accordance with the above mentioned regulations.

### 14.6 Special precautionary measures for the user

Not applicable.

### 14.7 Bulk transportation according to Appendix II of MARPOL Convention 73/78 and according to the IBC Code

Not applicable.

## 15 Legal regulations

### 15.1 Regulations regarding 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.

### 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 Further information

The data in this safety data sheet exclusively refers to the fibre product described herein and not to the use in combination with any other material or another preparation or another product or in any other process.

The safety data sheet serves to protect persons and the environment through the provision of appropriate information of the commercial user of chemical fibres. It is not intended for the private end user.

The data in this safety data sheet corresponds to the state of knowledge of the completing party at the date of publication. This is not a contractual assurance of the product properties.

We expressly point out that rayon yarn is not a hazardous substance and therefore there is no necessity to create a safety data sheet in accordance with REACH 1907/2006/EC. The creation of such a safety data sheet occurs expressly on request by the customer only.