

EcoSafe

Biodegradable Decoration Fabrics





EcoSafe – Circular decoration fabrics for sustainable interior design

EcoSafe – these flame-retardant contract fabrics set new standards in sustainability. The fabrics in the EcoSafe collection are biodegradable and offer the functionalities of conventional polyester fabrics.

The fabrics were developed on the basis of the innovative OceanSafe technology, which has been evaluated according to 'Cradle to Cradle Certified® Gold' throughout the entire value chain. This proves that the fabrics were developed in the sense of a closed circular system.

EcoSafe combines innovative functionality with environmental awareness, offering a significant step forward in responsible and stylish contract furnishing.



CERTIFIED



naNea – Next generation biodegradable polyester

Our EcoSafe products are based on the innovative ‘naNea’ yarn from OceanSafe. naNea is a new co-polyester that is both biodegradable and recyclable. Its polymer structure enables rapid biodegradability in the natural environment without the use of chemical additives. naNea degrades by more than 93% in seawater within 99 days: tested according to ASTM D6691.

naNea is the first and so far only synthetic textile material in the world to achieve the C2C Certified® Gold Standard for the biological and technical cycle. naNea is proven to be non-persistent. It is manufactured without the use of harmful substances and contains no toxins such as heavy metals, antimony (antimony trioxide), volatile organic compounds (VOCs), endocrine disruptors or phosphorus-based flame retardants.

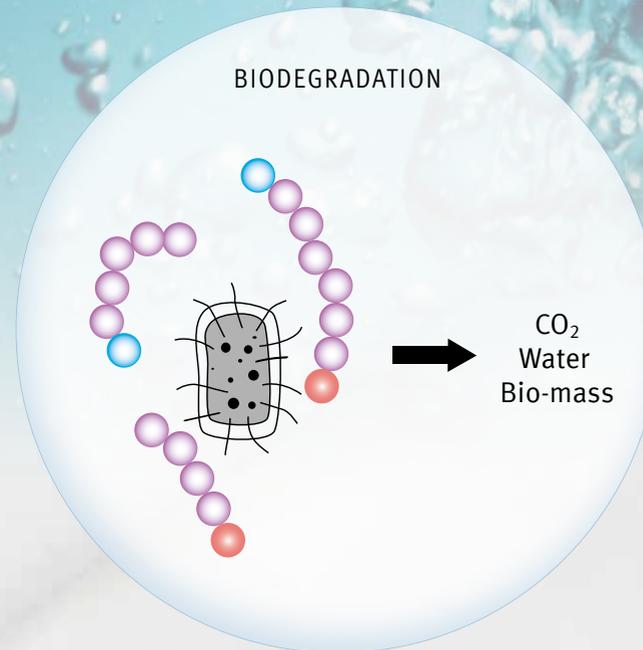
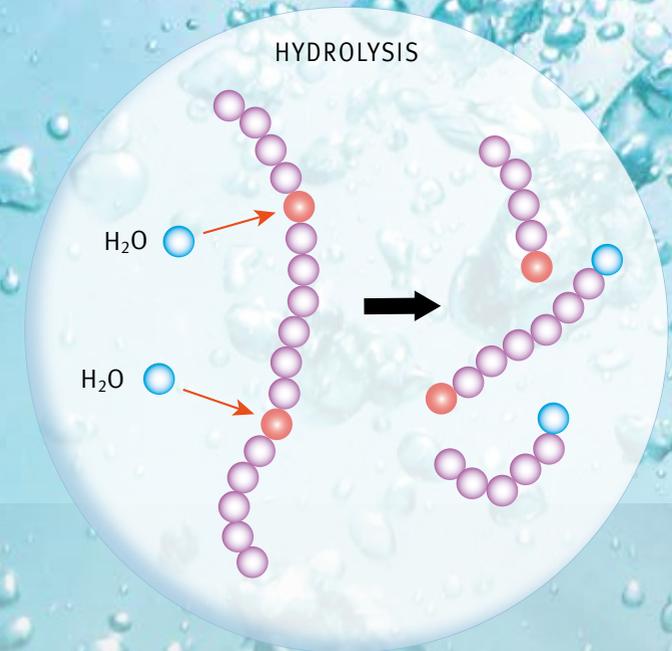
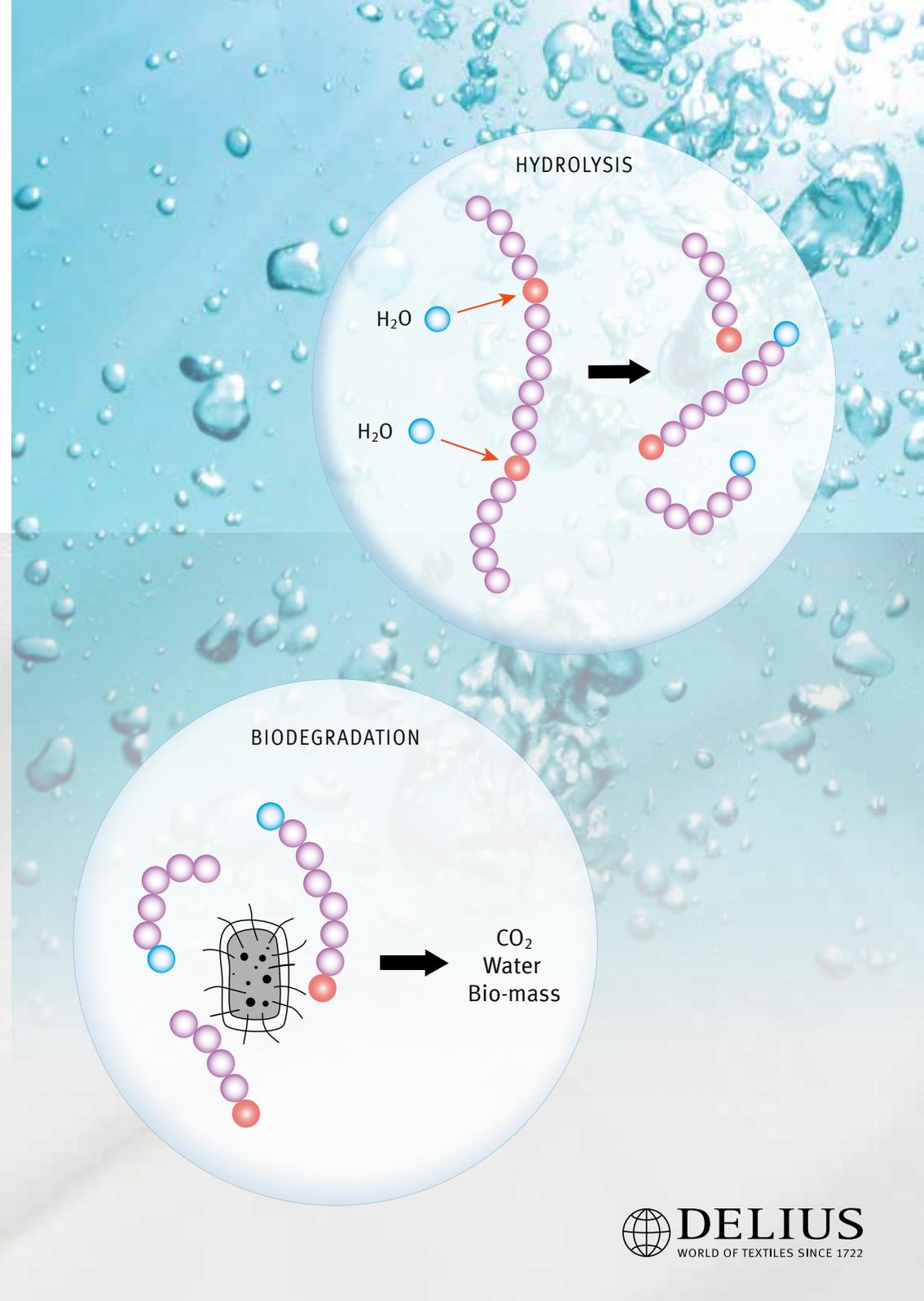
The textiles are soft, quick-drying, easy-care and, of course, permanently flame retardant.



HOW DOES IT WORK?

Biodegradability of polyester

- ✓ The polymer structure of naNea has been created to be biodegradable. The polymer is first split by hydrolysis so that it can then be broken down by microorganisms.
- ✓ The properties of biodegradability are not supported by additives or enzyme technology.

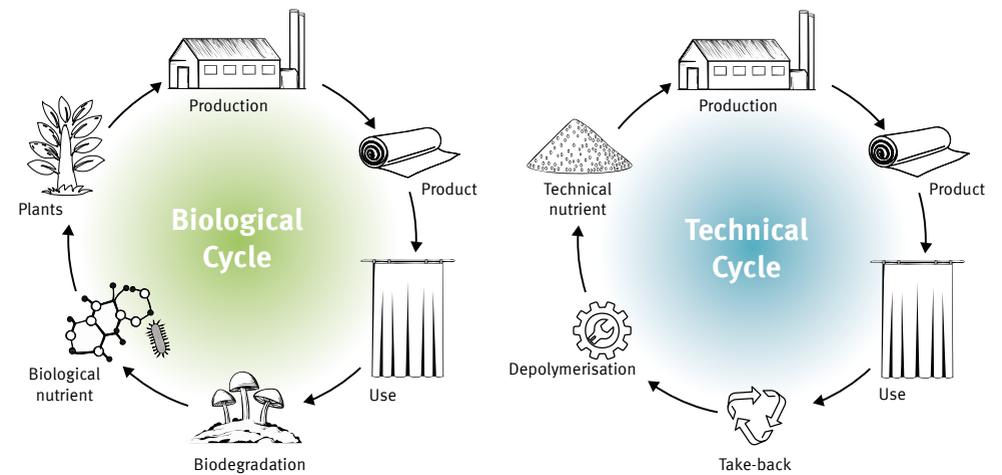


A WELL-ROUNDED PROGRAMME

naNea – A truly circular material

naNea is the first and so far only synthetic textile material in the world for the biological and technical cycle to achieve the C2C Certified® Gold Standard.

Biological and technical cycle according to the cradle to cradle principle



The products are developed to be biodegradable and to safely return to the environment as nutrients after use.

Products are designed for reuse and recycling, so materials can be easily disassembled and reused, minimising waste and reducing the need for new resources.

(Source: Cradle To Cradle)

ADDITIONAL ASPECTS

Improved air & water quality

EcoSafe fabrics do not contain any toxins and do not release any persistent microplastics during washing. Any fragments of the material that are released are biodegradable within a short time and completely harmless to animals and humans.



Technical properties of naNea

- ✓ comparable durability and strength to polyester
- ✓ soft and pleasant feel
- ✓ highly absorbent & hydrophilic
- ✓ quick-drying with high moisture transport
- ✓ permanently flame retardant
- ✓ easy-care & washable at 60 °C
- ✓ excellent tear resistance
- ✓ long-lasting quality
- ✓ skin-friendly material with a soft feel
- ✓ no biodegradation during washing or use

Environmental aspects

- ✓ biodegradable in seawater within 99 days to more than 93% (ASTM D6691-17)
- ✓ also biodegradable in soil and at the landfill site
- ✓ no persistent microplastics
- ✓ Cradle to Cradle Certified® Gold (material health platinum)
- ✓ recyclable into nutrients and raw materials
- ✓ does not contain toxins such as heavy metals, plasticisers and other harmful substances
- ✓ not ecotoxic

WHAT DOES CRADLE TO CRADLE MEAN?

The Cradle to Cradle design principle is modelled on nature

The aim of Cradle to Cradle is to leave a positive footprint for the production of a product. No other certification concept assesses products as rigorously and comprehensively as Cradle to Cradle. The following five core areas are certified: material health, recyclability, renewable energies, water balance and social responsibility.

‘Cradle to Cradle is a design philosophy focused on making products that are safe and sustainable and can be fully recycled or composted at the end of their life. It aims to mimic natural processes in which materials are continuously reused to minimise waste and environmental impact and support a circular economy.’

(Source: OceanSafe)

All of the product’s ingredients must be chemically harmless and recyclable. Cradle to Cradle Certified® products may only be manufactured in C2C-audited companies. The entire supply chain along the product is subject to strict criteria, which are independently verified.



The material naNea is C2C Certified® Gold Standard certified and tested for environmental compatibility by the Hohenstein Institute.

Cradle to Cradle Certified® also stands for:

- ✓ At least 50% renewable energy and 50% CO₂ emissions are offset.
- ✓ The water flows required for production must be characterised.
- ✓ The entire value chain is audited by external auditors.
- ✓ Social fairness in the supply chain is evaluated, a code of conduct must be in place, innovative social projects must be implemented.

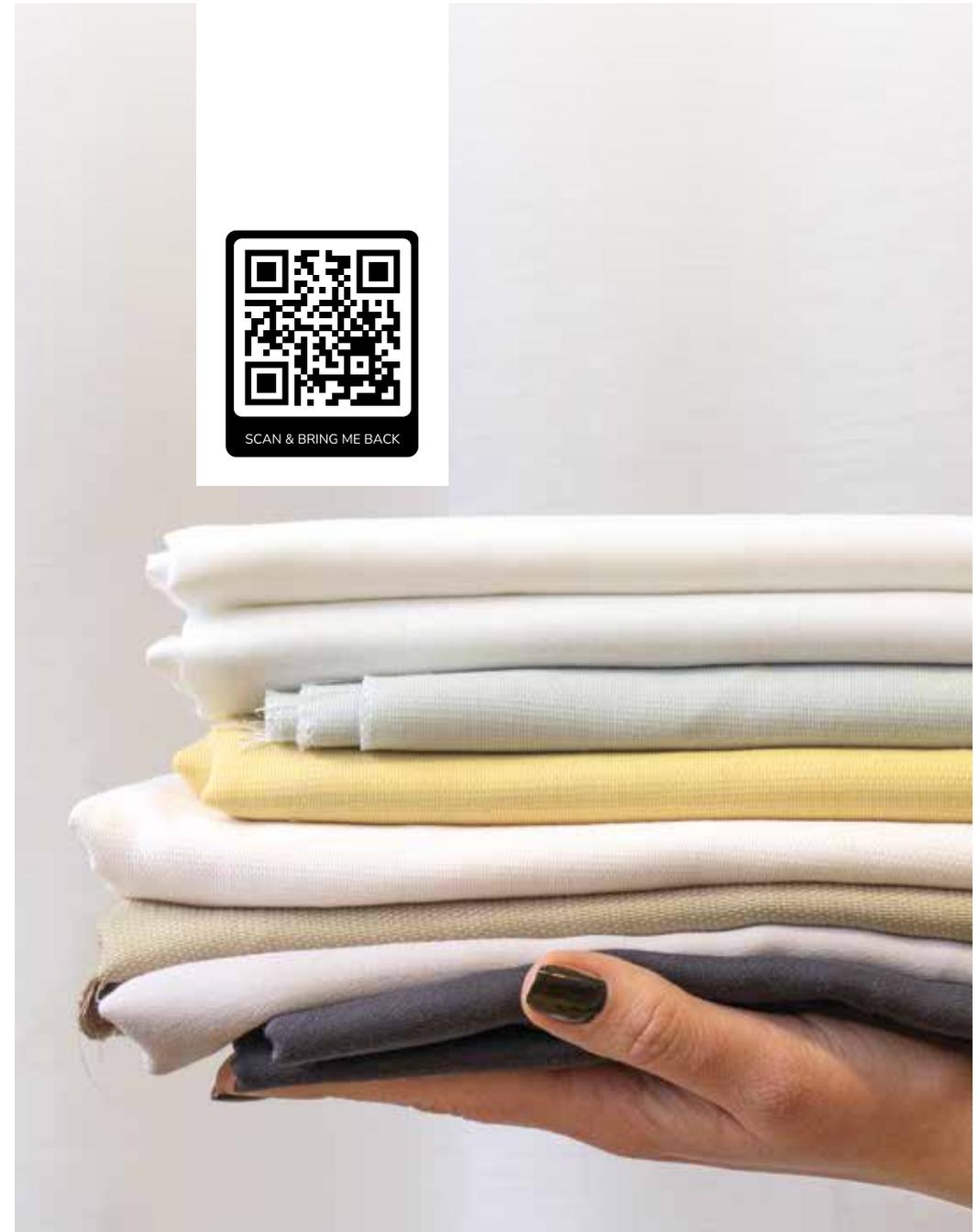


BRING IT BACK

Take-back system

At the end of the product life of the textiles, these are collected via a take-back system and, in accordance with the technical cycle, converted into source materials for the production of new fibres and yarns.

The return is made to Delius. There the textiles are collected and sent back to OceanSafe to close the cycle.



EcoSafe decoration and curtain fabrics

EcoSafe Bloom 61000753



EcoSafe Bloom is a decorative fabric with a lively structure, available in a width of 300 cm. It comes in 14 solid colours, all with a matte finish and soft drape. There is a choice of 7 natural tones, white and soft shades such as smoke teal and burnt sienna.

EcoSafe Hope DELILIGHT 61000751



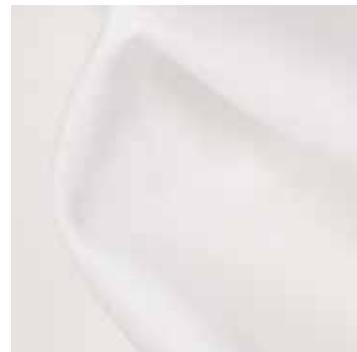
EcoSafe Hope is a sheer voile in soft off-white, 290 cm wide. The matte finish and natural hand create a clean look.

EcoSafe Future DELILIGHT 61000752



The semi-sheer curtain fabric EcoSafe Future is characterised by its crêpe weave and is available in four natural shades. The fabric is 300 cm wide, has a matt surface and drapes beautifully. Perfect for sustainable designs with a natural look.

EcoSafe Earth DELILIGHT 61000750



What makes the transparent curtain fabric EcoSafe Earth so special is the shantung effect of the weave. It is available in a fabric width of 290 cm in soft white. The fabric is characterised by a natural feel and a pleasant drape.

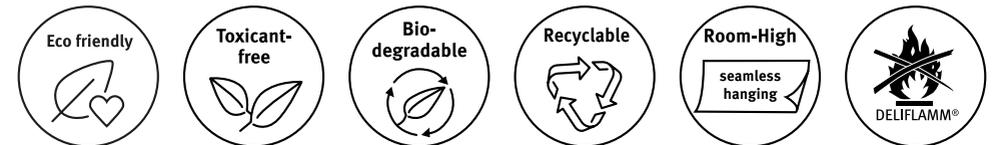


To finish your garment in C2C Certified® Gold, you need a Cradle to Cradle-certified sewing studio and accessories. You can find more information on our website.



Product details

EcoSafe	EcoSafe Bloom	EcoSafe Future	EcoSafe Hope	EcoSafe Earth
	61000753	DELIGHT 61000752	DELIGHT 61000751	DELIGHT 61000750
Width approx.	300 cm	300 cm	290 cm	290 cm
Weight approx.	170 g/m ²	90 g/m ²	55 g/m ²	70 g/m ²
Material	100 % Polyester biodegradable naNea	100 % Polyester biodegradable naNea	100 % Polyester biodegradable naNea	100 % Polyester biodegradable naNea
Lightfastness	Note 5	Note 5	Note 6	Note 6
Flame resistance	DIN 4102 / B1, EN 13773, BS 5867 Typ B, C 1, NFPA 701, IMO 2010 FTP Code Part 7	DIN 4102 / B1, EN 13773, C 1, M 1, NFPA 701, IMO 2010 FTP Code Part 7	DIN 4102 / B1, EN 13773, C 1, M 1, NFPA 701, IMO 2010 FTP Code Part 7	DIN 4102 / B1, EN 13773, C 1, M 1, NFPA 701



Latest information about the technical details is available on the Internet.

All the above technical data are of average value and merely describe the technical characteristics and chemical composition of the delivered goods. No guarantee is given.

Product information



Always up to date

www.delius.de



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retardant contract fabrics

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