



2025-09-13

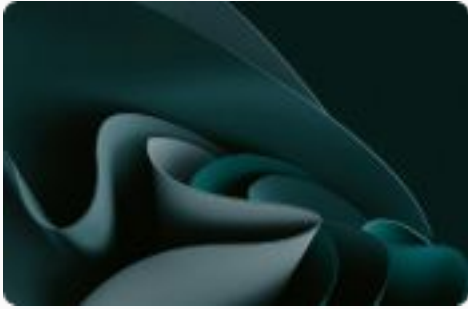
Lyreco LCA

# Life Cycle Assessment

*The methodology in this report is based on ISO 14040*

5.955.877 (sold in CH)

# Summary



## 01 | Methodology



## 02 | Results

# 01

## Methodology

# Environmental Impact Assessment

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Functional unit</b>                       | <p>The functional unit is a quantified performance of a product system for use as a reference unit. One of the primary purposes of a functional unit is to provide a reference to which the input and output data are normalized (in a mathematical sense).</p> <p>The functional unit of this analysis is "100 pair(s) of disposable gloves used once".</p>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Impact Indicator</b>                      | <p>The impact is measured through the "IPCC 2013 GWP 100a" method.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Electricity impact calculation method</b> | <p>Following guidelines from the GHG Protocol, the impact of electricity is calculated using the location-based approach. This means that the emission factors used represent the average annual carbon intensity of the power grid in the country the processes take place in.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hypothesis</b>                            | <p>The Product's material composition is supplemented, if necessary, by secondary information as shown in the list below.</p> <ul style="list-style-type: none"> <li>– Nitrile 100%</li> </ul> <p>Manufacturing Processes and associated loss percentages are assumed based on materials in the product.</p> <p>The electricity is based on the average in the country of manufacturing.</p> <p>Transportation is based on the common routes between the country of manufacturing and the country of sale.</p> <p>No replacements during the lifetime, therefore there are no emissions corresponding to the usage phase of the clipboard.</p> <p>The End of Life is based on the average waste management process of the materials in the product.</p> |

# Environmental Impact Assessment

## System Boundaries

The scope of this research includes the complete lifecycle of a pair of disposable gloves from raw material extraction to disposal options for each material, which is the cradle-to-grave perspective.

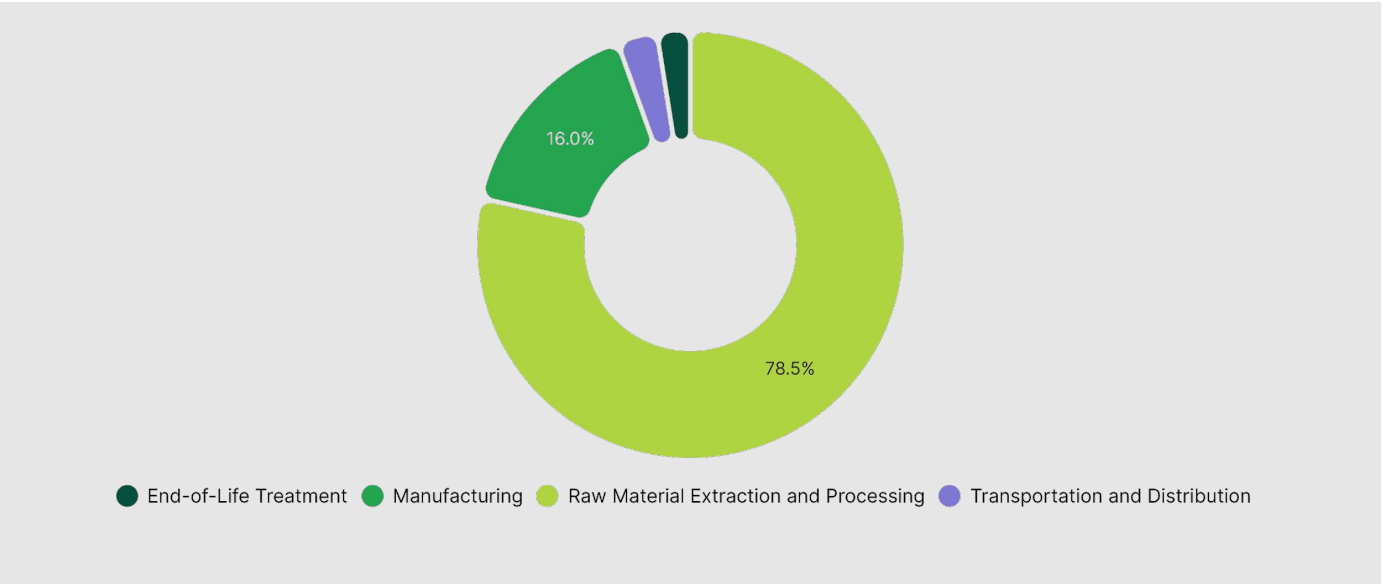
## Exclusions

The impact of secondary packaging is excluded from this assessment.

# 02

## Results

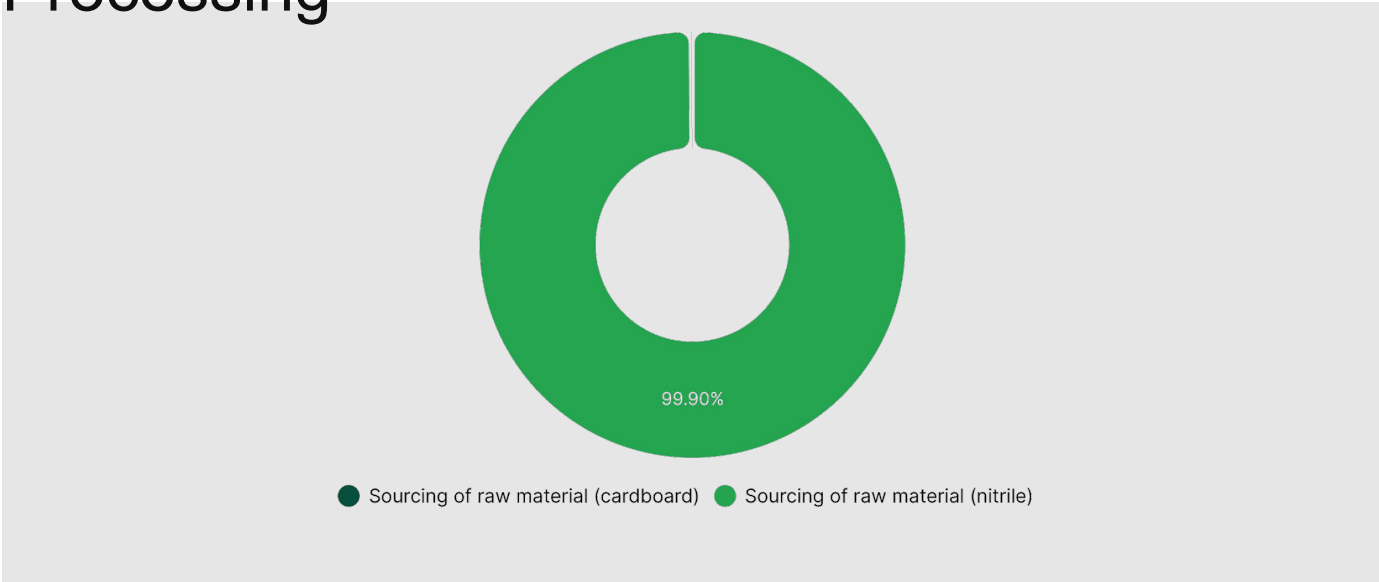
5.955.877 (sold in CH)  
 Climate Change



| Step                                   | Impact<br>(kg CO <sub>2</sub> eq) | Percentage<br>(%) |
|----------------------------------------|-----------------------------------|-------------------|
| Raw Material Extraction and Processing | 7.18                              | 78.48 %           |
| Manufacturing                          | 1.46                              | 16.01 %           |
| Transportation and Distribution        | 0.28                              | 3.01 %            |
| End-of-Life Treatment                  | 0.23                              | 2.50 %            |
|                                        |                                   |                   |
| TOTAL                                  | 9.15                              | 100.00 %          |

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# Climate Change - Raw Material Extraction and Processing



| Activity                             | Emission Factor Num | Quantity | Impact (kg CO <sub>2</sub> eq) | Percentage (%) |
|--------------------------------------|---------------------|----------|--------------------------------|----------------|
| Sourcing of raw material (nitrile)   | 2                   | 0.76     | 7.17                           | 99.90 %        |
| Sourcing of raw material (cardboard) | 1                   | 0.01     | 7.49 · 10 <sup>-3</sup>        | 0.10 %         |

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|       |  |  |      |          |
|-------|--|--|------|----------|
| TOTAL |  |  | 7.18 | 100.00 % |
|-------|--|--|------|----------|



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# Climate Change - Manufacturing



● Electricity usage during material transformation (nitrile)

| Activity                                                   | Emission Factor Num | Quantity | Impact (kg CO <sub>2</sub> eq) | Percentage (%) |
|------------------------------------------------------------|---------------------|----------|--------------------------------|----------------|
| Electricity usage during material transformation (nitrile) | 3                   | 2.41     | 1.46                           | 100.00 %       |
|                                                            |                     |          |                                |                |
|                                                            |                     |          |                                |                |
|                                                            |                     |          |                                |                |
|                                                            |                     |          |                                |                |
| TOTAL                                                      |                     |          | 1.46                           | 100.00 %       |

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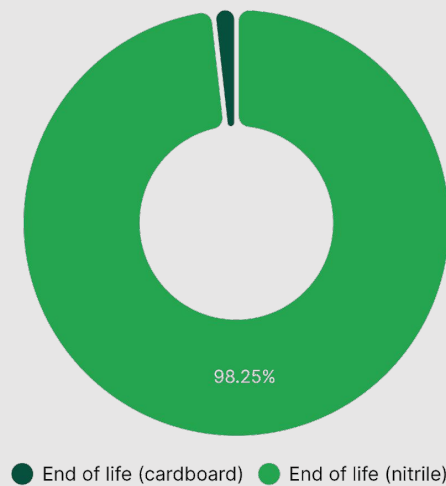
# Climate Change - Transportation and Distribution



| Activity | Emission Factor Num | Quantity | Impact<br>(g CO <sub>2</sub> eq) | Percentage (%) |
|----------|---------------------|----------|----------------------------------|----------------|
| Freight  | 4                   | 0.7      | 275.21                           | 100.00 %       |
|          |                     |          |                                  |                |
|          |                     |          |                                  |                |
|          |                     |          |                                  |                |
|          |                     |          |                                  |                |
| TOTAL    |                     |          | 275.21                           | 100.00 %       |

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# Climate Change - End-of-Life Treatment



| Activity                | Emission Factor Num | Quantity                | Impact<br>(g CO <sub>2</sub> eq) | Percentage (%) |
|-------------------------|---------------------|-------------------------|----------------------------------|----------------|
| End of life (nitrile)   | 5                   | 0.69                    | 224.94                           | 98.25 %        |
| End of life (cardboard) | 6                   | 6.94 · 10 <sup>-3</sup> | 4.01                             | 1.75 %         |
|                         |                     |                         |                                  |                |
|                         |                     |                         |                                  |                |
|                         |                     |                         |                                  |                |
| TOTAL                   |                     |                         | 228.95                           | 100.00 %       |

# Contact us

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[www.greenly.earth](http://www.greenly.earth)