

greenly

2025-09-18

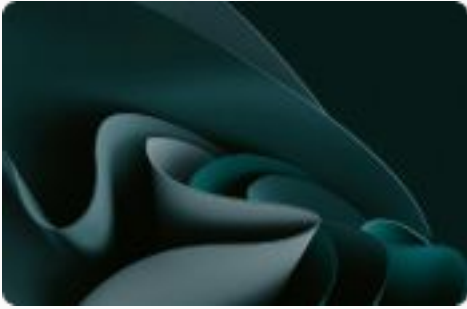
Lyreco LCA

Life Cycle Assessment

The methodology in this report is based on ISO 14040

3061419 (sold in CH)

Summary



01 | Methodology



02 | Results

01

Methodology

Environmental Impact Assessment

Functional unit	<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 "500 page(s) of A4 paper for writing".</p>
Impact Indicator	<p>The impact is measured through the "IPCC 2013 GWP 100a" method.</p>
Electricity impact calculation method	<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>
Hypothesis	

Environmental Impact Assessment

System Boundaries

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

Exclusions

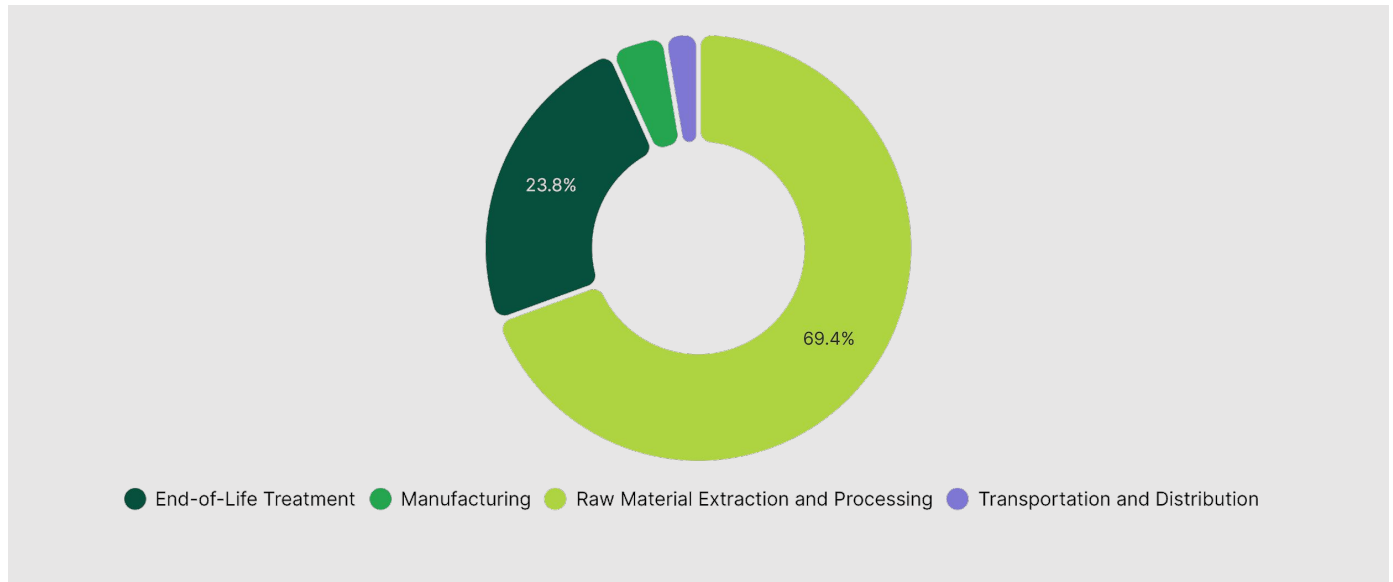
The impact of secondary packaging impact and writing utensils are excluded from this assessment.

02

Results

3061419 (sold in CH)

Climate Change



Step	Impact (kg CO ₂ eq)	Percentage (%)
Raw Material Extraction and Processing	4.21	69.43 %
End-of-Life Treatment	1.44	23.82 %
Manufacturing	0.25	4.18 %
Transportation and Distribution	0.16	2.57 %
TOTAL	6.06	100.00 %

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Climate Change - Raw Material Extraction and Processing



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
Sourcing of raw material (coloured kraft paper)	1	3.76	4.21	100.00 %
TOTAL			4.21	100.00 %

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Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Natural gas usage during material transformation (coloured kraft paper)	3	0.71	129.22	51.03 %
Electricity usage during material transformation (coloured kraft paper)	2	1.33	124.01	48.97 %
TOTAL			253.23	100.00 %

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Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO ₂ eq)	Percentage (%)
Freight	4	2.51	155.99	100.00 %
TOTAL			155.99	100.00 %

3061419 (sold in CH)

Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (kg CO ₂ eq)	Percentage (%)
End of life (coloured kraft paper)	5	2.51	1.44	100.00 %
TOTAL			1.44	100.00 %

Contact us

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