Product Carbon Footprint report

Kiilto Pro Fresh Softener

Product name: Kiilto Pro Fresh Softener
Package size used for the calculation: 3 x 5 l canister in cardboard box
Application: Fabric softeners
Dilution: 5 ml per kilos of laundry
Period of PCF calculation: 1.1.2024-31.12.2024
Version: 1 (20.8.2025)
Date of first publication: 20.8.2025
Declared unit: 1 kg of product in its packaging[1]
Location of production: Finland

1 *The declared unit of 1 kg of product in its packaging does not include the weight of the packaging in the 1kg*

Data sources:

Primary data for the carbon footprint is based on production from the year 2024. Primary data was collected from KiiltoClean Oy and from suppliers of raw materials and packaging materials.

Where the collected data was not comprehensive, it was complemented with similar supplier's data and selected generic data. Other calculation data is based on the best available data from databases at the time of preparing the PCF.

PCF calculation standards or guidelines used:

The calculations have been conducted adhering to the main principles of the following standards and guidelines:

ISO 14067:2018 Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

ISO 14044:2006 Environmental management — Life cycle assessment — Requirements and guidelines

ISO 14040:2006 + A1:2020 ISO 14040 Environmental management — Life cycle assessment — Principles and framework

Product category rules (PCR): Detergents and washing preparations 2011:10, Version 4.0.0*

** As a deviation from the Product Caterogy rules, downstream operations (transport to customer, use of the product, and end-of-life of the packaging) have not been included in the calculations.*

Standards and guidelines leave room for interpretation and personal assessment. Discretion should be used when comparing studies to each other due to methodologies potentially not being comparable.

PRODUCT COMPOSITION

Product Content	Amount	Unit
Cationic surfactants	15-30	%
Phenoxyethanol	< 5	%
Perfume	< 5	%
Secondary Packaging		
Corrugated cardboard		
Primary Packaging		
Canister: HDPE (35 % Recycled HDPE)		
Cap: HDPE		

PCF RESULTS

Product Composition	Result	Unit
Fossil emissions	0,254	kg CO_2-eq
Biogenic emissions	0,001	kg CO_2-eq
Land Transformation	0,000	kg CO_2-eq

CARBON FOOTPRINT

CO_2

Database and LCA software used:

The databases used were Ecoinvent 3 database (version 3.11). The LCA Software used was SimaPro Analyst version 10.2.0.2. Multi user.

Impact assessment method:

IPCC 2021 GWP100 (excl. CO2 uptake) V1.03

System boundaries: Cradle-to-gate

Including: Production of raw materials and packaging materials, transportation of raw materials and packaging materials, manufacturing at KiiltoClean's site, storage and site-to-site transportation. Activities such as the use of the product and end-of-life were excluded from the system boundaries.

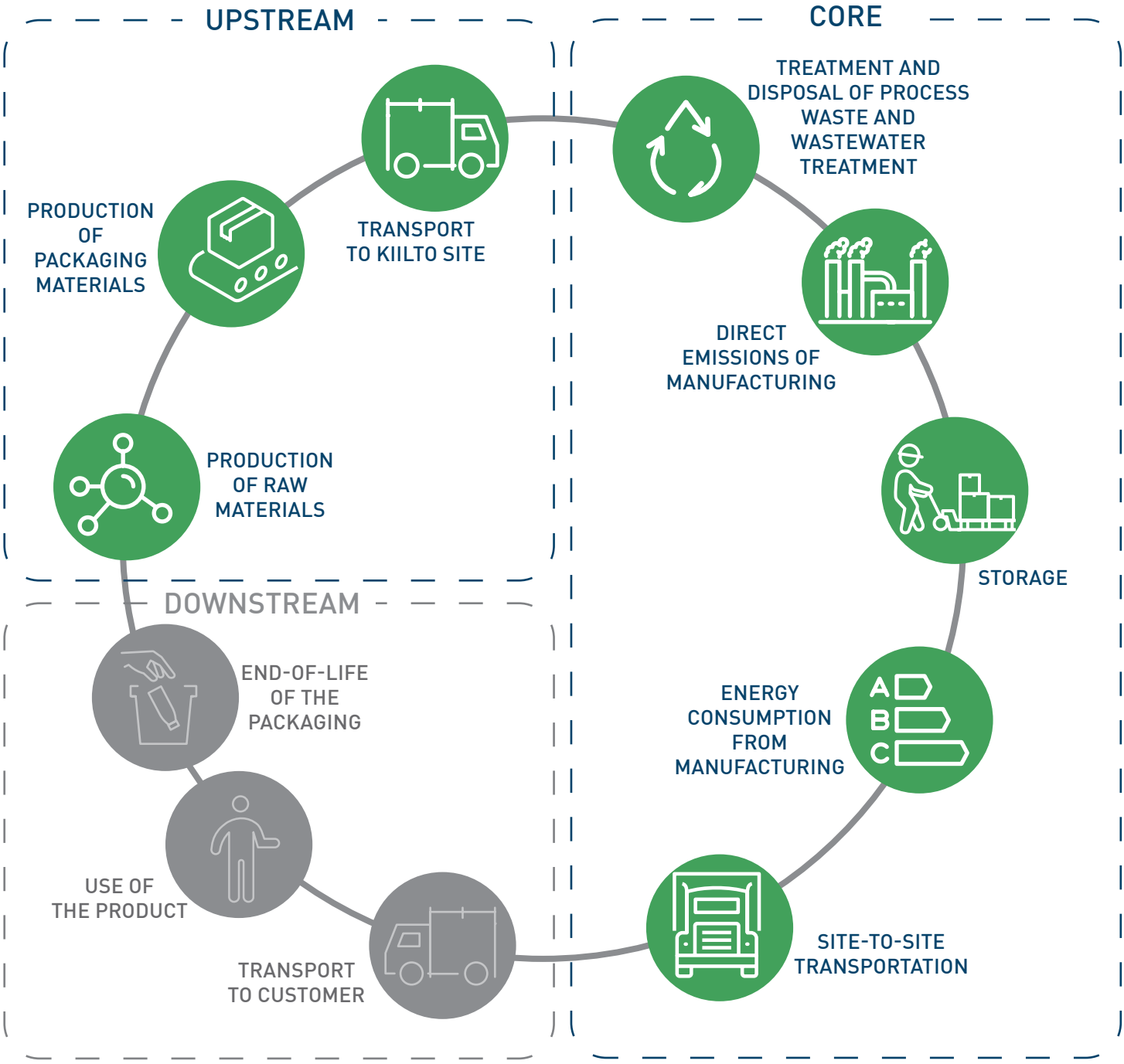

Figure 1 Upstream and core operation emissions were included in this assessment

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