LCA Information

Style nr. 18479-311

Contracting organization	Mascot International A/S, Denmark			
Project team	Corporate Responsibility Department, Mascot International A/S			
Review of Mascot's Life-Cycle Assessment (LCA) methodology and product LCA	Quantis Sàrl, Switzerland			
Method validity date	December 2023 Methodology is valid for 5 years			
Method	ISO 14040:2006 + A1:2020 / ISO 14044:2006 + A1:2018 + A2:2020. Product Environmental Footprint Category Rules (PEFCR) for Apparel and Footwear is followed when possible.			
Description of system boundaries	Cradle to grave			
LCIA method	EF 3.1 (adapted)			
Data collection	Primary data – main source. Generic data from ecoinvent v.3.10 APOS database Reference year is 2023			
LCA software used	SimaPro v.9.6.0.1			
Data quality	Method for data quality rating (DQR) developed in alignment with the PEF requirements.			
Data quality declaration	High (rated as described in PEFCR for Apparel and Footwear).			
Limitations	Style studies are based on reference sizes as defined in PEFCR for apparel and footwear. Current model is also based on reference colours. For other sizes and colours, the reader is encouraged to bear this in mind.			
LCA methodology summary report	Contact <u>responsibility@mascot.dk</u> if you are interested in the report.			

LIFE CYCLE ASSESSMENT FACTSHEET

March 2025 version 2.1

TARGET GROUP

The 18479 is part of a collection designed for a broad target group in different work situations within trade, construction, manufacturing, industry and businesses with laundry agreements.

LONG-LASTING DURABILITY

By analysing fabric performance requirements and collecting data on customer experience, the LCA is verified by Quantis for an estimated duration of service of use in hard working situations and with industrial wash every week.

CRADLE-TO-GRAVE

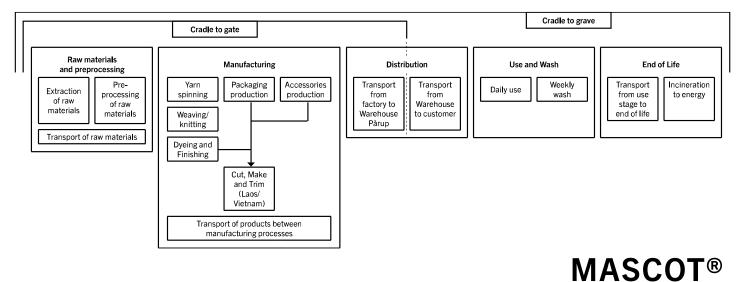
Cradle-to-grave is a scoping of the LCA that calculates the entire lifecycle of a product from Extraction of Raw materials to the Use & Wash and End-of-Life stages. Cradle-to-grave results are presented per use according to PEF Category Rules for Apparel and Footwear.

METHODOLOGY

MASCOT LCAs is mainly based on primary data from own factories and suppliers. MASCOT LCAs are calculated according to ISO14040/44. The method is verified by Quantis and applies to all colours.



PROCESS CHAIN





WORKWEAR

THE 16 IMPACT FACTORS

Impact category	Damage assessment	Impact to-gate	Impact to-grave
	unit	per garment	per use
Acidification	mol H⁺ eq	0,0849	0,000342
Climate change	kg CO₂ eq	15,5	0,0813
Climate change - Biogenic	kg CO ₂ eq	0,0162	0,000611
Climate change - Fossil	kg CO ₂ eq	15,5	0,0795
Climate change - Land use and LU change	kg CO2 eq	0,0171	0,00122
Ecotoxicity, freshwater	CTUe	139	0,803
Ecotoxicity, freshwater - part 2	CTUe	37,4	0,175
Ecotoxicity, freshwater - inorganics	CTUe	166	0,817
Ecotoxicity, freshwater - organics part 1	CTUe	6,79	0,142
Ecotoxicity, freshwater - organics part 2	CTUe	3,85	0,0187
Particulate matter	disease inc.	0,00000872	0,0000000346
Eutrophication, marine	kg N eq	0,0463	0,000169
Eutrophication, freshwater	kg P eq	0,000492	0,00000705
Eutrophication, terrestrial	mol N eq	0,181	0,000798
Human toxicity, cancer	CTUh	0,000000234	0,00000000196
Human toxicity, cancer - inorganics	CTUh	0,0000000173	0,000000000789
Human toxicity, cancer - organics	CTUh	0,000000217	0,00000000188
Human toxicity, non-cancer	CTUh	0,00000154	0,00000000738
Human toxicity, non-cancer - inorganics	CTUh	0,00000135	0,00000000666
Human toxicity, non-cancer - organics	CTUh	0,000000192	0,000000000724
Ionising radiation	kBq U ⁻²³⁵ eq	1,06	0,00351
Land use	Pt	65,1	0,385
Ozone depletion	kg CFC11 eq	0,00000122	0,0000000289
Photochemical ozone formation	kg NMVOC eq	0,0547	0,000267
Resource use, fossils	MJ	194	1,08
Resource use, minerals and metals	kg Sb eq	0,000203	0,0000063
Water use	m ³ depriv.	8,05	0,0289

