LCA Information

Style nr. 18001-249

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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 18001 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

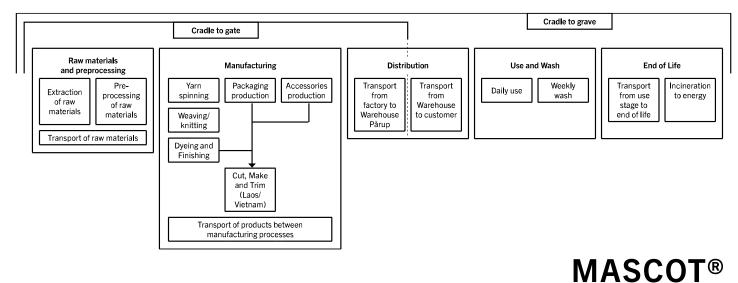
Cradle-to-grave is a scoping of the LCA that calculates the entire lifecycle of a product from Extraction of Raw materials to the Use & Wash and End-of-Life stages. Cradle-to-grave results are presented per use according to PEF Category Rules for Apparel and Footwear.

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	0,0686	0,00028
Climate change	kg CO ₂ eq	11,4	0,0642
Climate change - Biogenic	kg CO ₂ eq	0,0201	0,000763
Climate change - Fossil	kg CO ₂ eq	11,3	0,0624
Climate change - Land use and LU change	kg CO ₂ eq	0,0153	0,00104
Ecotoxicity, freshwater	CTUe	64,5	0,554
Ecotoxicity, freshwater - part 2	CTUe	55,8	0,206
Ecotoxicity, freshwater - inorganics	CTUe	96,2	0,588
Ecotoxicity, freshwater - organics part 1	CTUe	7,69	0,125
Ecotoxicity, freshwater - organics part 2	CTUe	16,4	0,0477
Particulate matter	disease inc.	0,00000601	0,0000000252
Eutrophication, marine	kg N eq	0,012	0,0000763
Eutrophication, freshwater	kg P eq	0,000593	0,00000642
Eutrophication, terrestrial	mol N eq	0,13	0,000613
Human toxicity, cancer	CTUh	0,000000368	0,00000000204
Human toxicity, cancer - inorganics	CTUh	0,0000000231	0,000000000879
Human toxicity, cancer - organics	CTUh	0,000000345	0,00000000196
Human toxicity, non-cancer	CTUh	0,00000215	0,0000000836
Human toxicity, non-cancer - inorganics	CTUh	0,00000188	0,00000000749
Human toxicity, non-cancer - organics	CTUh	0,000000269	0,00000000873
Ionising radiation	kBq U ⁻²³⁵ eq	0,82	0,00278
Land use	Pt	48,7	0,299
Ozone depletion	kg CFC11 eq	0,0000145	0,000000351
Photochemical ozone formation	kg NMVOC eq	0,051	0,000234
Resource use, fossils	MJ	183	0,95
Resource use, minerals and metals	kg Sb eq	0,000247	0,0000071
Water use	m ³ depriv.	8,55	0,0286

