Henkel AG & Co. KGaA, 40191 Düsseldorf, Germany

Product Carbon Footprint (PCF) of the Product

1. Confidential information for Henkel customers – Disclaimer

VALID TILL 3/2026

Dear Sir or Madam,

At Henkel, we are committed to leadership in sustainability. With our pioneering spirit, knowledge, and innovative technologies, we aim to drive sustainable development and shape a viable future for the next generations. Our company purpose reflects this ambition: pioneers at heart for the good of generations. At Henkel Adhesive Technologies, we translate this purpose into real-world action – and make sustainability happen. We believe bold ambitions are the key to unlocking real-world progress. Because of that, we promise to deliver 100 % end-to-end transparency on the sustainability of all our products according to leading standards by 2030.

To deliver on this promise, we developed the Henkel Environmental Assessment Reporting Tool (HEART) at Adhesive Technologies to systematically analyze, measure, and evaluate the environmental footprint of our products based on life cycle assessments (LCA). This novel tool enables the automatic calculation of the product carbon footprint (PCF) of a majority of Henkel Adhesive Technologies products. Thereby, the methodology maps the cradle-to-gate emissions including the emissions of raw materials, production, packaging, and logistics. It is aligned with ISO 14067 and the standards of the Together for Sustainability (TfS) initiative and has been certified by TÜV Rheinland. Henkel's in-house data represent the foundation of the calculation. If such data is unavailable, we draw on secondary data from existing databases of life cycle assessment, average values, and emission factors.

The following analysis shows the product carbon footprint of

2808679 - TECHNOMELT AS 8605 COIL 20KG

The provided analysis may be used only for calculating subsequent carbon footprints of the customer’s own products produced with Henkel products. Excluded use cases can be found in the disclaimer.

If there are any questions regarding the results, please do not hesitate to contact us.

Kind regards,

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Disclaimer: Henkel calculates Carbon Footprint for selected products. Product Carbon Footprint provided by Henkel may be used only for calculating the carbon footprints of your own products produced with Henkel products. Disclosure and/or further sharing of Henkel's data with third parties is not allowed. Disclosure of any Henkel data or other information contained in this letter to third parties is only allowed under the following cumulative conditions: Henkel data cannot be extracted from the customer's environmental data, and no direct correlation can be established between the customer's environmental information and the underlying Henkel product. If you wish to make further disclosures of Henkel data or other information contained in this letter, this needs to be aligned with us in advance and respective disclosures are only allowed with our prior written consent in the individual case. Henkel data reflect the situation at the time of data collection and calculation and Henkel will not provide updates on submitted information. Updates need to be requested particularly by the customer. Any calculated data are given to the best of Henkel's knowledge. All this information shall not, however, as far as legally permissible, create any guarantee or representation of any kind or any liability of Henkel and shall not relieve the user from undertaking its investigations and tests.

2. Baseline of the analysis for the Carbon Footprint

Declared unit1 kg of finished good

2808679 - TECHNOMELT AS 8605 COIL 20KG

at Henkel factory gate, represents the baseline of the calculation.

System boundaries

Included in the calculation:
Raw materials, inbound transportation, energy consumption during product processing, own operations, intercompany logistics, and packaging.
Excluded from the calculation:
Outbound transportation.

Thus, a cradle-to-gate analysis is performed.

Time-related scope

The primary data from Henkel Adhesive Technologies sites reflect the latest production conditions. More specifically, the most recent required raw materials for the production and packaging are used, while for the production and logistics, the calculation considers mass-allocated values from the calculation month back to the last year. Background data is not older than 5 years.

Regional scope

Global average (GLO)

Certification, Limitations, and Use
The product carbon footprint (PCF) calculations follow the requirements and guidance given by ISO 14067:2018 and TfS. In a methodology review, TÜV Rheinland has confirmed that the PCF calculator **HEART** developed and used by Henkel Adhesive Technologies is verified following ISO 14067:2018 & TfS and reflects the state of the art **(ID-Nr. 0000086028)**. Due to the specific methodological basis regarding assumptions and limitations, no comparison can be carried out with other studies if the conditions differ.

Validity: PCF calculations are updated every month to include the latest 12 months. The PCF in this document should not be used after 1 year past its calculation date.

Calculation date: **March, 2025**

3. Impact Assessment Method and Allocation

Henkel Adhesive Technologies provides Carbon Footprint estimation according to ISO 14067:2018, strongly connected with ISO 14040:2006 and 14044:2006 (Life Cycle Assessment ISO standards). Moreover, the calculation is performed in accordance with the TfS Guideline. The calculation of the PCF is provided in kg CO_2e/kg product, addressing two aspects:

- PCF - Excluding Biogenic CO_2 Uptake [kg CO_2e/kg product]

- PCF - Including Biogenic CO_2 Uptake [kg CO_2e/kg product]

The PCF calculation provides the as-is situation of the product. Hence, an attributional approach is followed. This principle implies using intermediate processes in the background system, while mass allocation is present in life cycle stages for production and inter-company logistic.

Moreover, the renewable carbon fraction related to the raw materials is estimated as an additional environmental KPI:

- Renewable Carbon Content [kg renewable/kg product]

In the present document, the PCF calculation for both relevant KPIs is provided while the percentage of the renewable content is also included.

4. Results

The following table summarizes the results of the PCF and renewable carbon content calculations for

2808679 - TECHNOMELT AS 8605 COIL 20KG

The results include total cradle-to-gate PCF and renewable content, as well as contribution of raw materials, production, packaging, inter-company logistics to the total cradle-to-gate PCF of the product. Emission of packaging calculated assuming a single usage of packaging. Emission reduction due to reusing or refurbishing the packages are not considered.

Table 1 Contribution of life cycle phases to PCF and renewable content

Finished Good	Life Cycle Phase	PCF-Excluding Biogenic CO2 Uptake[1] *[kg CO_2e /kg product]*	PCF-Including Biogenic CO2 Uptake[2] *[kg CO_2e /kg product]*	Renewable Carbon Content *[kg renewable /kg product]*
2808679 - TECHNOMELT AS 8605 COIL 20KG	Raw Materials	1.97		
	Production	0.14		
	Packaging	0.02		
	Logistics	0.05		
	Total	2.18		

Zero PCF of a life cycle phase indicates that the value is smaller than 0.01 kg CO_2e/kg product.

[1] PCF estimation considers fossil and biogenic emissions.

[2] PCF estimation considers fossil and biogenic emissions as well as biogenic uptake.

5. Data and Data Quality

For the data inventory of the PCF calculation, in-house data from Henkel Adhesive Technologies are used. More specifically, the most recent list of raw materials is used, which is in line with Henkel Adhesives' standard practice. Regarding the data for the production and logistics life cycle phases, measured data are used while the mass allocation process is applied on the product level. Concerning packaging, in-house data for the packaging material and type used in each specific product are considered.

Emission factors for raw materials are provided by suppliers and well-established LCA databases, such as but not limited to Ecoinvent and/or CarbonMinds. For the production and packaging, the emission factors are provided by LCA databases. For logistics, EcoTransIT calculator is used, as a trustworthy solution which is compliant with EN 16258 and the GLEC Framework.

For each life cycle phase, the three-level data quality rating according to the Together for Sustainability (TfS) guideline has been performed. The data quality indicators and ratings are shown in the following table.

Table 2 Baseline for the Data Quality Rating

Data Quality Indicator	1 - Good	2 - Fair	3 - Poor
Technology	Same technology	Similar technology (based on secondary data)	Different or unknown technology
Time	Data from the reporting year	Data from less than 5 years	Data more than 5 years
Geography	Same country or country subdivision	Same region or subregion	Global or unknown
Completeness	All relevant sites for the specified period	<50% of sites for a specified period or >50% of sites for a shorter period	Less than 50% of sites for shorter time period or unknown
Reliability	Measured activity data	Activity data partly based on assumptions	Non-qualified estimate

The PCF values for raw materials, production, packaging, and logistics are analyzed according to the TfS data quality rating method. The final ratings for the products are summarized below.

Table 3 Data Quality Rating for each phase and the total result

Finished Good	Life Cycle phase	Rating	Explanation
2808679 - TECHNOMELT AS 8605 COIL 20KG	Raw Materials	1	Good
	Production	2	Fair
	Packaging	1	Good
	Logistics	1	Good
	Total	1	Good

6. Glossary

Cradle-to-gate: Cradle-to-gate assessments cover parts of a product life cycle, from (raw) material acquisition ('cradle') to the factory gate (i.e., before it is transported to the customer). Subsequent production steps at the customer, the use phase, and the disposal phase of the product are omitted in this case.

GELC: a guide for shippers, carriers, and logistics service providers on how to report emissions from logistics operations. It is meant to be used in conjunction with the Corporate Standard, and it has earned the 'Built on GHG Protocol' mark for its compliance with GHG Protocol's requirements.

Life Cycle Assessment (LCA): Compilation and evaluation of the inputs, outputs, and potential environmental impacts of a product system throughout its lifecycle. The calculation is based on ISO 14044:2006/AMD 2:2020.

Product Carbon Footprint (PCF): A Product Carbon Footprint (PCF) measures, manages, and communicates greenhouse gas emissions associated with goods and services. PCF is based on life cycle assessment (LCA) but focuses on the single impact category of global warming expressed as CO_2 equivalents and based on the selected stages or processes within the life cycle – cf. ISO14067:2018.

Renewable Carbon Content: It represents the share of renewable material per kg of product [kg renewable/kg product].

Together for Sustainability: a member-driven initiative, raising CSR standards throughout the chemical industry.