

Life Cycle Assessment (LCA) of TEGO® ADDIBIT FS 726

Product Information:

Description: Preparation of fatty acid amidoamine, spindle oil and polyethermodified siloxane

Production Location: Europe

CAS:

Total Carbon Content [kg C]: 0.8

Biogenic Carbon Content [kg biogenic C]: 0.0

LCA Information:

System Boundary: Cradle-to-Gate

Functional Unit (FU): 1 kg unpacked

Validity of the LCA: 2025 - 2028

Year of creation/last update: 2026

Product Carbon Footprint (PCF):

Impact Categories	Value	Unit per FU
GWP 100, excl. bio. CO ₂ incl. LUC	2.2	kg CO ₂ eq.
GWP 100, incl. bio. CO ₂ incl. LUC	2.0	kg CO ₂ eq.
Separated Emission Values		
Aircraft emissions	0.0	kg CO ₂ eq.
Biogenic GHG emissions	0,3	kg CO ₂ eq.
Biogenic GHG removal	-0,4	kg CO ₂ eq.
Emissions from land use change (dLUC)	0.0	kg CO ₂ eq.
Fossil GHG emissions	2,1	kg CO ₂ eq.

GWP 100: Global Warming Potential (100 years)
dLUC: Direct Land Use Change

Other Environmental Impacts:

Impact Categories	Value	Unit per FU
Acidification	5.5E-3	Mole of H+ eq.
Blue water consumption	8.4	kg
Eutrophication, freshwater	5.2E-5	kg P eq.
Land Use	18.4	Pt
Resource Use, fossils	60.7	MJ

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General Information:

Standards: All our LCA calculations and reporting follow the ISO 14040/44 and ISO 14067 standards and the [Together for Sustainability \(TfS\) PCF guideline, Dec-2024](#)

Validation Approach: Third Party Validation - Systematic Approach Review

Data Sources and Methods:

Activity data (Evonik production process) from 2025. **Supplier-specific data** used where available after internal quality check. Where necessary, supplier data is supplemented by further environmental impacts from databases.

Secondary data: Sphera MLC database 2026.1, Ecoinvent 3.12 database and literature

Please note that secondary data includes increased GHG emissions for oil and natural gas production (based on the "Global Methane Tracker Report" from IEA). For some products this leads to an increased GWP compared to earlier versions.

Attribution of multi-output processes (according to the [TfS PCF guideline, Dec-2024](#))

- Product: Not applicable
- Waste treatment: Reverse cut-off

Cut-off rules for the inventory: In general, 1% for single inputs and below 3% for the sum. No environmentally relevant flows were neglected. Transports were considered but distances were mainly estimated.

Impact assessment:

- Global Warming Potential: IPCC AR6 GWP 100 with separated emission values according to ISO 14067
- Other environmental impacts (except Blue water consumption): EF 3.1

A state-of-the-art LCA software was used for modeling.



For **further information**, please visit the [Evonik sustainability website](#).

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