

# CERTIFICATE

Certificate-ID.: C01-2023-03-21257003

Certificate for: **Life cycle assessment of ReGeneration and ReJuvenation of Spent Catalyst, Luxembourg**

Certified: Evonik Operations GmbH  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang



Review Report No.: CF-2023-03-21257003

Applied Standard: ISO 14040:2006 + A1:2020 /ISO 14044:2006 + A1:2018 + A2:2020

Functional Unit: Production of 1 kg of Regenerated hydrotreating catalyst and 1 kg of Excel® Rejuvenated catalyst

Life Cycle Scope: Cradle-to-gate (without packaging)

Valid until: April 30, 2024

TÜV Rheinland hereby confirms per independent review that the requirements specified in ISO 14040:2006 + A1:2020 /ISO 14044:2006 + A1:2018 + A2:2020 are fulfilled. The Certification is limited to the named version of the review report only. Validity of this certificate may be reviewed by entering the ID number of the TÜV Rheinland Test Mark at [certipedia.com](https://certipedia.com).

Cologne, April 5, 2023



Life Cycle  
Assessment  
Regular  
Surveillance



[www.tuv.com](https://www.tuv.com)  
ID 0000085019

Norbert Heidelmann  
TÜV Rheinland Group  
Sustainability and Carbon Services

Susanne Jorre