ENVIRONMENTAL PRODUCT DECLARATION

as per *ISO 14025* and *EN 15804+A2*

Owner of the Declaration	IGP Pulvertechnik AG
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-IGP-20260543-IBC1-EN
Issue date	16/10/2026
Valid to	15/10/2031

Coating Powder Series IGP-HWFsmart 59

IGP Pulvertechnik AG

Institut Bauen und Umwelt e.V.

ECO PLATFORM EPD VERIFIED

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General Information

IGP Pulvertechnik AG

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-IGP-20260543-IBC1-EN

This declaration is based on the product category rules:

Coatings with organic binders, 01/08/2021
(PCR checked and approved by the SVR)

Issue date

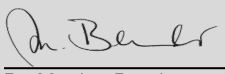
16/10/2026

Valid to

15/10/2031



Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)



Dr. Martina Bender
(Managing Director Institut Bauen und Umwelt e.V.)

Coating Powder Series IGP-HWFsmart 59

Owner of the declaration

IGP Pulvertechnik AG
Ringstrasse 30
9500 Wil
Switzerland

Declared product / declared unit

IGP-HWF*smart* 59 is a superdurable, low-cure powder coating series engineered for architectural facade and infrastructure applications. It delivers superdurable weathering performance, ensuring long-term colour and gloss stability. Furthermore, the system is designed to enable energy-efficient application processes through reduced curing conditions.

Declared unit 1 kg.

Scope:

This Environmental Product Declaration (EPD) refers to a representative formulation of an organic, thermosetting powder coating from the IGP-HWF*smart* 59 series, manufactured by IGP Pulvertechnik AG.

The declaration covers the reproducible colour range, including solid and pearl mica effect shades, of the superdurable, low-cure product range IGP-HWF*smart* 59. It includes the corresponding product groups 5903, 5907, and 591T and represents an average of selected representative products.

The declared products are developed and manufactured at the production sites in Wil, Switzerland, and Siestrzeń, Poland.
The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidence.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard is abbreviated as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR
Independent verification of the declaration and data according to ISO 14025:2011
☐ internal ☒ external

Florian Gehring,
(Independent verifier)

Product

Product description/Product definition

IGP-HWF*smart* 59 powder coatings are based on superdurable, saturated polyester resins. The product series fulfils the requirements for superdurable façade coating systems according to established quality standards, including QUALICOAT Class 2 and GSB Florida 3, and has been tested in accordance with *AAMA 2604*.
The series offers long-lasting colour and gloss retention and is characterised by increased resistance to scratching, supporting the durability of coated components. Furthermore, the system is designed as a low-cure powder coating, with curing temperatures starting at 160 °C, enabling energy- and resource-efficient coating processes.

The series includes the following surface characteristics:
IGP-HWF*smart* 5903 smooth, matte
IGP-HWF*smart* 5907 smooth, silk gloss
IGP-HWF*smart* 591T fine-textured, deep matte
For the use and application of the product, the respective national provisions at the place of use apply, in Germany for example the building codes of the federal states and the corresponding national specifications.

Application

IGP-HWF*smart* 59 powder coatings are used for façade applications on aluminium and steel substrates. On aluminium substrates, the product can generally be applied as a single-coat system, supporting efficient material use.

Technical data

IGP-HWF*smart* 59 series powder coatings, applied at a recommended film thickness of 60-80 µm, are designed for architectural applications requiring enhanced weather resistance as well as high scratch and abrasion resistance. The key powder and film properties are summarised in the table below:

Powder and film properties

Name	Value	Unit
Weathering level according to QUALICOAT and GSB	QC* Class 2, GSB Florida 3	
Density DIN EN ISO 8130-2	1.3-1.6	kg/L
Theoretical yield at 90% application efficiency (60-80 µm)	9.4-11.5	m^2/kg
Solids content DIN EN ISO 3251	99	%
Gloss 5903 DIN EN ISO 2813	20-30	R'/60°**
Gloss 5907 DIN EN ISO 2813	65-85	R'/60°
Gloss 591T DIN EN ISO 2813	2-12	R'/60°
Curing time	from 15	min
Curing temperature	160	°C
Cross-cut adhesion test DIN EN ISO 2409	Gt 0	
Mandrel bending test / tape test DIN EN ISO 1519	≤ 5	mm
Impact test / tape test ASTM D 2794	≥ 20	inch-pound
Erichsen cupping / tape test DIN EN ISO 1520	≥ 5	mm
Buchholz hardness DIN EN ISO 2815	≥ 80	
Scratch resistance according to Martindale 32 revolutions, 200 gr DIN EN 16611***	≥ 50	%
Outdoor weathering acc. to GSB and QUALICOAT, 3 years Florida DIN EN ISO 2810	> 50 %	RG****
Outdoor weathering acc. to AAMA, 5 years Florida ASTM D 523	> 30 %	RG
Accelerated weathering QUV-SE-B-313, 600 h DIN EN ISO 16474-3	> 50 %	RG
Accelerated weathering Xenon, 1000 h DIN EN ISO 16474-2	> 90 %	RG
Condensation water test, 1000 h DIN EN ISO 6270-2	No infiltration, no blisters	
Acetic acid salt spray test, 1000 h DIN EN ISO 9227	No infiltration, no blisters	
Mortar resistance ASTM D 3260	Easily removable after 24h with no residues	
Color Stability as per QC and GSB limit values, CIELAB DIN EN ISO/CIE 11664-5	LV*****: QC - App. A12; GSB - AL6314, App. 2, 2.4	

*QC - QUALICOAT
**R'/60° - Reflectometer values at a 60° angle of measurement
***only applicable for product groups 5903 and 5907
****RG - Residual gloss
*****LV - Limit values

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision (no CE-marking).

Base materials/auxiliary materials

The declaration refers to the following composition of coating products from the IGP-HWF*smart* 59 series: The weighted

average composition of the selected coating products from the IGP-HWF*smart* 59 series for this declaration refers to binders (66.89 %), pigments inorganic - metal oxides (0.64 %), pigments inorganic - others (0.64 %), pigments special (6.49 %), extender (23.69 %), additives (1.66 %).
Substances of very high concern (SVHC) as per the current ECHA Candidate List (as of February 4, 2026) and substances listed in Annex XIV of *REACH Regulation (EG) No. 1907/2006* are not contained LCA: Calculation rules above the legally defined threshold value of 0,1 %. Articles of series IGP-HWF*smart* 59 also comply with *Directive (EU) 2015/863 (RoHS 3)*.

Reference service life

Provided that coatings based on IGP-HWF*smart* 59 are properly maintained, their service life corresponds to that of the building. Weathering-induced changes in colour and gloss do not affect the protective performance.

LCA: Calculation rules

Declared unit

The declared unit is 1 kg.

Declared unit and mass reference

Name	Value	Unit
Gross density (mean value)	1548	kg/m^3
Declared unit	1	kg

The EPD declares an average composition for all analysed products.

Details of the declared unit

The weighted average composition of the declared product is calculated in relation to the production volume shares of a total of 15 variants. 11 variants are manufactured at the IGP production locations in Wil, Switzerland and 4 variants are manufactured at the IGP production locations in Wil, Switzerland and Siestrzeń, Poland. The production process is identical for all products of all the analysed variants.
With regard to the variability of the LCA results, slight fluctuations can occur due to different product compositions and the energy used for production in Wil compared to Poland. A single score evaluation based on *EN15804+A2 (EF 3.1)* normalisation is conducted on all 15 products (Modules A1-A3) to assess the range in variation of their corresponding environmental impacts relative to the weighted average. The range varies between +17 % and –14 % relative to the declared weighted average results. The LCA values are estimated to be robust.

System boundary

Type of EPD:
Cradle-to-plant gate with modules C1-C4 and module D (A1-A3, C, D). The life cycle assessment covers:
A1-A3

- Modules A1, A3: Raw material provision and powder coating manufacturing processes (Switzerland Electricity: 0.68 kg CO_2e/kWh; Poland Electricity 0.83 kg CO_2e/kWh), including the packaging. The biogenic CO_2 emissions from the packaging material are declared in A1-A3, and the stored carbon is taken into account as 'CO_2-neutral'.
- Module A2: Transport to the production facilities (Wil, Switzerland and Siestrzeń, Poland).

C1-C4, D

- Module C1: Manual dismantling (no environmental loads).
- Module C2: An average transport distance of 200 km by truck is assumed.
- Module C3: No Incineration is considered in End-of-life scenario. Therefore, it is set to 0.
- Module C4: As a disposal scenario, it is assumed that the coating powder, which is located on a metallic surface during disposal, is thermally disposed of during the treatment of metal (melting).
- Module D: No benefits are generated from module C4, it is set to 0.

Geographic representativeness

Country or region in which the declared product system is manufactured, used or handled at the end of the product's life span: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all data sets to be compared were created according to *EN 15804* and the building context and product-specific performance characteristics are taken into account.
Background database: *Sphera LCA FE* (GaBi ts) software, *CUP 2026.1*.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

The calculation of the biogenic carbon content is based on the assumption that the absolutely dry wood and cardboard mass consists of 50 % biogenic carbon. None of the analysed products contains biogenic carbon, only the packaging material. The uptake and release of biogenic CO_2 emissions from the packaging material is declared in A1-A3. The stored carbon is therefore taken into account in A1-A3 as 'CO_2-neutral'.

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.024	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO_2.

Installation into the building (A5)

The end-of-life stage of the product packaging is not declared in Module A5, but is instead presented as technical scenario information.

Name	Value	Unit
Carton	0.028	kg
Polyethylene Foil	0.015	kg
Wooden Pallets	0.029	kg

End of Life / Disposal Scenario (C4)

Name	Value	Unit
For thermal utilisation without energy recovery	1	kg

IGP POWDER COATINGS

LCA: Results

The following tables show the results according to *EN 15804+A2 (EF3.1)*.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg Powder coating HWFsmart 59

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP-total	kg CO_2 eq	3.34E+00	6.65E-02	8.35E-01	0	2.04E-02	0	2.53E+00	0
GWP-fossil	kg CO_2 eq	3.31E+00	6.62E-02	8.31E-01	0	2.03E-02	0	2.53E+00	0
GWP-biogenic	kg CO_2 eq	2.03E-02	6.99E-05	3.17E-03	0	2.19E-05	0	1.04E-04	0
GWP-luluc	kg CO_2 eq	1.21E-03	2.48E-04	3.36E-04	0	8.72E-05	0	1.19E-04	0
ODP	kg CFC11 eq	2.24E-11	2.89E-14	3.69E-12	0	9.63E-15	0	1.58E-12	0
AP	mol H^+ eq	7.28E-03	3.96E-04	1.01E-03	0	8.18E-05	0	4.57E-04	0
EP-freshwater	kg P eq	6.23E-06	1.49E-07	8.36E-07	0	5.17E-08	0	7.53E-08	0
EP-marine	kg N eq	1.54E-03	1.64E-04	3.49E-04	0	3.86E-05	0	1.03E-04	0
EP-terrestrial	mol N eq	1.73E-02	1.79E-03	4.17E-03	0	4.21E-04	0	2.1E-03	0
POCP	kg NMVOC eq	5.55E-03	3.77E-04	9.71E-04	0	7.5E-05	0	2.72E-04	0
ADPE	kg Sb eq	4.66E-06	4.47E-09	3.59E-08	0	1.48E-09	0	1.11E-08	0
ADPF	MJ	7.07E+01	8.6E-01	4.63E+00	0	2.66E-01	0	1.25E+00	0
WDP	m^3 world eq deprived	1.7E-01	2.48E-04	1.84E-01	0	8.28E-05	0	2.36E-01	0

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 kg Powder coating HWFsmart 59

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	MJ	6.25E+00	5.43E-02	1.18E+01	0	1.89E-02	0	4.42E-01	0
PERM	MJ	0	0	4.34E-01	0	0	0	0	0
PERT	MJ	6.25E+00	5.43E-02	1.23E+01	0	1.89E-02	0	4.42E-01	0
PENRE	MJ	5.05E+01	8.6E-01	3.77E+00	0	2.66E-01	0	2.14E+01	0
PENRM	MJ	2.02E+01	0	6.78E-01	0	0	0	-2.02E+01	0
PENRT	MJ	7.07E+01	8.6E-01	4.44E+00	0	2.66E-01	0	1.25E+00	0
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m^3	1.48E-02	1.73E-05	4.83E-03	0	5.92E-06	0	5.65E-03	0

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 kg Powder coating HWFsmart 59

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	kg	1.38E-08	3.93E-11	6.06E-09	0	1.23E-11	0	9.5E-10	0
NHWD	kg	3.78E-01	1.53E-04	1.35E-01	0	5.13E-05	0	2.52E-01	0
RWD	kg	4.67E-04	1.3E-06	1.05E-04	0	4.19E-07	0	2.21E-05	0
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 kg Powder coating HWFsmart 59

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PM	Disease incidence	7.06E-08	5.92E-09	9.12E-09	0	5.69E-10	0	5.16E-09	0
IR	kBq U235 eq	4.55E-02	1.68E-04	1.44E-02	0	5.47E-05	0	2.08E-03	0
ETP-fw	CTUe	4.52E+01	7.26E-01	2.08E+00	0	2.29E-01	0	5.17E-01	0
HTP-c	CTUh	7.78E-10	1.41E-11	6.47E-11	0	4.54E-12	0	3.91E-11	0
HTP-nc	CTUh	2.13E-08	6.88E-10	4.41E-09	0	2.36E-10	0	3.1E-09	0
SQP	SQP	6.37E+00	2.03E-01	4.3E+00	0	7.14E-02	0	2.72E-01	0

PM = Potential incidence of disease due to PM emissions; IR = Potential human exposure efficiency relative to U235; ETP-fw = Potential comparative toxic unit for ecosystems; HTP-c = Potential comparative toxic unit for humans (carcinogenic); HTP-nc = Potential comparative toxic unit for humans (not carcinogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential human exposure efficiency relative to U235”. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – carcinogenic”, “Potential comparative toxic unit for humans - not carcinogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

References

Standards

ASTM D 2794
Standard ASTM D 2794-93 (2019): Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).

ASTM D 3260
Standard ASTM D 3260-01 (2017): Standard Test Method for Acid and Mortar Resistance of Factory-Applied Clear Coatings on Extruded Aluminum Products.

ASTM D 523
Standard ASTM D 523-14 (2018): Standard Test Method for Specular Gloss.

DIN EN 15804
Standard DIN EN 15804:2022-03: Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products; German version EN 15804:2012+A2:2019 + AC:2021.

DIN EN 16611
Standard DIN EN 16611:2023-06: Furniture - Assessment of the surface resistance to microscratching; German version EN 16611:2023. Used as reference norm for the Martindale test (part of QUALICOAT specification since 2020 for evaluating the abrasion resistance of powder coatings).

DIN EN ISO 1519
Standard DIN EN ISO 1519:2011-04: Paints and varnishes - Bend test (cylindrical mandrel) (ISO 1519:2011); German version EN ISO 1519:2011.

DIN EN ISO 1520
Standard DIN EN ISO 1520:2007-11: Paints and varnishes - Cupping test (ISO 1520:2006); German version EN ISO 1520:2006.

DIN EN ISO 16474-2
Standard DIN EN ISO 16474-2:2022-11: Paints and varnishes - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 16474-2:2013 + Amd.1:2022); German version EN ISO 16474-2:2013 + A1:2022.

DIN EN ISO 16474-3
Standard DIN EN ISO 16474-3:2021-04: Paints and varnishes - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 16474-3:2021); German version EN ISO 16474-3:2021.

DIN EN ISO 2409
Standard DIN EN ISO 2409:2020-12: Paints and varnishes - Cross-cut test (ISO 2409:2020); German version EN ISO 2409:2020.

DIN EN ISO 2810
Standard DIN EN ISO 2810:2021-01: Paints and varnishes - Natural weathering of coatings - Exposure and assessment (ISO 2810:2020); German version EN ISO 2810:2020.

DIN EN ISO 2813
Standard DIN EN ISO 2813:2015-02: Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813:2014); German version EN ISO 2813:2014.

DIN EN ISO 2815
Standard DIN EN ISO 2815:2003-10: Paints and varnishes - Buchholz indentation test (ISO 2815:2003); German version EN ISO 2815:2003.

DIN EN ISO 3251
Standard DIN EN ISO 3251:2019-09: Paints, varnishes and plastics - Determination of non-volatile-matter content (ISO 3251:2019); German version EN ISO 3251:2019.

DIN EN ISO 6270-2
Standard DIN EN ISO 6270-2:2025-09: Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir) (ISO 6270-2:2025); German version EN ISO 6270-2:2025.

DIN EN ISO 8130-2
Standard DIN EN ISO 8130-2:2021-10: Coating powders - Part 2: Determination of density by gas comparison pycnometer (referee method) (ISO 8130-2:2021); German version EN ISO 8130-2:2021.

DIN EN ISO 9227
Standard DIN EN ISO 9227:2024-10: Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2022 + Amd 1:2024); German version EN ISO 9227:2022 + A1:2024.

DIN EN ISO/CIE 11664-5
Standard DIN EN ISO/CIE 11664-5:2024-10: Colourimetry - Part 5: CIE 1976 L*u*v* colour space and u', v' uniform chromaticity scale diagram (ISO/CIE 11664-5:2024); German version EN ISO/CIE 11664-5:2024.

Further References

AAMA 2604
AAMA 2604-22-Voluntary Specification (2022): Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix)-AAMA 2604-22.

Directive (EU) 2015/863 (RoHS 3)
based on Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances.

ECHA Candidate List
The ECHA Candidate List of the European Chemicals Agency (ECHA) defines Substances of Very High Concern (SVHC) under REACH regulation (last updated February 4, 2026).

GSB International
Certification body for assuring the quality of the coating of workpieces and the pretreatment and coating materials used in the process.

IBU General Instructions
Institut Bauen und Umwelt e.V.: General Program Instructions for the Preparation of EPDs of Institut Bauen und Umwelt e.V. (IBU). Version 2.1, Berlin: Institut Bauen und Umwelt e.V., 2022.

PCR Part A
PCR Part A: Calculation Rules for the Life Cycle Assessment and Requirements for the Project Report, Berlin: Institut Bauen und Umwelt e.V., www.ibuepd.com, Version 1.4, 2024.

PCR Part B
PCR Part B: Requirements for the EPD for Coatings with Organic Binders, Institut Bauen und Umwelt e.V. (IBU), v11, 2024.

QUALICOAT
Certification body for industrial painting and coating, quality assurance, and specifications of processes, products, and quality tests.

REACH
Regulation (EG) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EU) 528/2012 (EU BPR)
The Biocidal Products Regulation (BPR, Regulation (EU) 528/2012) concerns the making available on the market and use of biocidal products which are used to protect humans, animals, materials, or articles against harmful organisms such as pests or bacteria.

RoHS 2011/65/EU
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment supersedes Directive 2002/95/EC.

Sphera LCA FE (ehemals GaBi)
Sphera LCA For Experts (formerly GaBi software system) with the respective databases Managed LCA Content MLC (formerly GaBi databases), Sphera Solutions GmbH. CUP Version: 2026.1. University of Stuttgart, Leinfelden Echterdingen, MLC data documentation at https://lcadatabase.sphera.com/ (June 2026).

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