



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Grace chair



SWEDESE

Owner of the declaration: Swedese Möbler AB

Product: Grace chair

Declared unit: 1 pcs

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2022 Part B for Furniture

Program operator: The Norwegian EPD Foundation

Declaration number:

NEPD-7062-6350-EN

Registration number:

NEPD-7062-6350-EN

Issue date:

04.07.2024

Valid to: 04.07.2029

EPD software: LCAno EPD generator ID: 335052

The Norwegian EPD Foundation



General information

Product

Grace chair

Program operator:

The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-7062-6350-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2022 Part B for Furniture

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs Grace chair

Declared unit (cradle to gate) with option:

A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

Functional unit:

Stackable chair for public environment, including packaging.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Owner of the declaration:

Swedese Möbler AB Contact person: Daniel Stenmarker Phone: 004639379711 e-mail: daniel.stenmarker@swedese.se

Manufacturer:

Swedese Möbler AB

Place of production:

Swedese Möbler AB Formvägen 567 23 Vaggeryd, Sweden

Management system: ISO 9001, ISO 14001

Organisation no:

556280-1323

Issue date: 04.07.2029

Valid to:

04.07.2029

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Daniel Stenmarker

Reviewer of company-specific input data and EPD: Anna Ek

Approved:

Håkon Hauan, CEO EPD-Norge

Product

Product description:

Grace is a pretty and beautiful stackable wooden chair, designed by Staffan Holm. The chair is comfortable and unmistakable with its simple expression and elegant back sweep. It can be stacked seven high and is one of several models in the Grace family. With its simplicity and function, it fits just as well in the home as in public environments. www.swedese.se/produkter/stolar/grace-stapelbar-stol

Product specification

The model studied in this declaration is Grace Chair in Ash, including packaging.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glue for wood	0,35	7,41	0,00	0,00
Metal - Steel	0,13	2,75	0,03	20,00
Paint, water-based	0,18	3,90	0,00	0,00
Plastic - Polyethylene (LDPE)	0,04	0,85	0,00	0,00
Wood - Solid ash	3,07	64,99	0,00	0,00
Wood - Solid beech/birch	0,95	20,11	0,00	0,00
Total	4,72	100,00	0,03	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,21	39,62	0,00	0,00
Recycled cardboard	0,32	60,38	0,32	100,00
Total incl. packaging	5,25	100,00	0,35	

Technical data:

Market:

Worldwide

Reference service life, product

15 years, 5 years warranty

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Grace chair

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

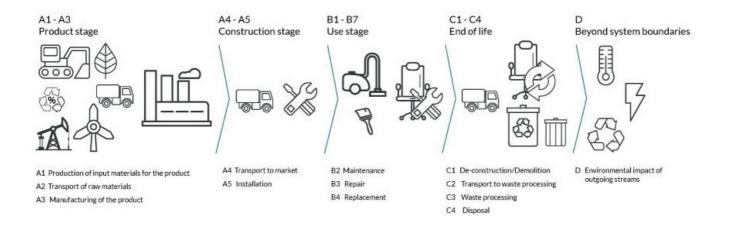
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Paint, water-based	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Wood - Solid ash	modified ecoinvent 3.6	Database	2019
Wood - Solid beech/birch	modified ecoinvent 3.6	Database	2019

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

	Pr	oduct stag	je	Constr installati	uction on stage		Use stage					End of life stage			Beyond the system boundaries		
Raw	materials	Transport	Manufacturing	Transport	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
Х		Х	Х	Х	Х	MND	Х	Х	Х	MND	MND	MND	Х	Х	Х	Х	Х

System boundary:



Additional technical information:

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

For regular care, wipe the furniture with a damp cloth and possibly a mild cleansing agent. Then dry properly with a dry cloth.

Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
36,7 %	300	0,043	l/tkm	12,90
Unit	Value			
kg	0,32			
kg	0,21			
	(incl. return) % 36,7 % Unit kg	(incl. return) % Distance (km) 36,7 % 300 Unit Value kg 0,32	(incl. return) % Distance (km) Fuel/Energy Consumption 36,7 % 300 0,043 Unit Value kg 0,32	(incl. return) % Distance (km) Fuel/Energy Consumption Onit 36,7 % 300 0,043 I/tkm Unit Value Image: Consumption Image: Consumption kg 0,32 Image: Consumption Image: Consumption

Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	145	0,043	l/tkm	6,24
Waste processing (C3)	Unit	Value			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,35			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,04			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,13			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	4,02			
Waste, materials to recycling (kg)	kg	0,04			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0,09			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,07			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,05			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	2,87			
Substitution of primary steel with net scrap (kg)	kg	0,04			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	43,48			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environme	ental impact								
	Indicator	Unit		A1-A3	A4	A5	B2	B3	
P	GWP-total	kg CO ₂ -	eq	-1,11E+00	2,57E-01	9,08E-01	0	0	
P	GWP-fossil	kg CO ₂ -	eq	6,02E+00	2,57E-01	8,57E-03	0	0	
P	GWP-biogenic	kg CO ₂ -	eq	-7,49E+00	1,06E-04	9,00E-01	0	0	
P	GWP-luluc	kg CO ₂ -	eq	3,66E-01	9,16E-05	2,84E-06	0	0	
Ò	ODP	kg CFC11	-eq	1,61E-06	5,83E-08	1,81E-09	0	0	
(E	AP	mol H+ -	eq	4,29E-02	7,39E-04	4,06E-05	0	0	
÷	EP-FreshWater	kg P -e	q	3,57E-04	2,06E-06	7,04E-08	0	0	
÷	EP-Marine	kg N -e	q	7,65E-03	1,46E-04	1,34E-05	0	0	
æ	EP-Terrestial	mol N -	eq	8,97E-02	1,64E-03	1,45E-04	0	0	
	РОСР	kg NMVOC	C-eq	2,47E-02	6,27E-04	4,18E-05	0	0	
s.	ADP-minerals&metals ¹	kg Sb-e	kg Sb-eq		7,11E-06	2,09E-07	0	0	
Ð	ADP-fossil ¹	MJ	MJ		3,89E+00	1,20E-01	0	0	
6	WDP ¹	m ³	m ³		3,76E+00	1,52E-01	0	0	
	Indicator	Unit	B4	C1	C2	C3	C4	D	
P	GWP-total	kg CO ₂ -eq	0	0	1,24E-01	7,62E+00	3,19E-02	-3,00E-01	
P	GWP-fossil	kg CO ₂ -eq	0	0	1,24E-01	9,46E-01	3,19E-02	-2,91E-01	
P	GWP-biogenic	kg CO ₂ -eq	0	0	5,15E-05	6,67E+00	1,33E-05	-5,42E-04	
P	GWP-luluc	kg CO ₂ -eq	0	0	4,43E-05	2,04E-04	3,40E-06	-8,70E-03	
Ò	ODP	kg CFC11 -eq	0	0	2,82E-08	9,32E-08	1,94E-09	-1,84E-02	
Ê	AP	mol H+ -eq	0	0	3,57E-04	1,79E-03	7,15E-05	-2,27E-03	
	EP-FreshWater	kg P -eq	0	0	9,93E-07	1,95E-05	3,17E-07	-2,48E-05	
	EP-Marine	kg N -eq	0	0	7,07E-05	5,47E-04	1,97E-05	-7,19E-04	
	EP-Terrestial	mol N -eq	0	0	7,91E-04	5,96E-03	2,28E-04	-7,75E-03	
and a		kg NMVOC -eq	0	0	3,03E-04	1,55E-03	6,37E-05	-2,22E-03	
	POCP	kg Mivroc -eq							
@ ###	POCP ADP-minerals&metals ¹	kg Sb-eq	0	0	3,43E-06	2,92E-06	7,83E-08	-3,18E-06	
				0	3,43E-06 1,88E+00	2,92E-06 3,66E+00		-3,18E-06 -3,93E+00	

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment: EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Additional er	nvironmental impac	ct indicators						
	Indicator	Unit		A1-A3	A4	A5	B2	B3
	РМ	Disease incidence		6,23E-07	1,58E-08	5,99E-10	0	0
	IRP ²	kgBq U235 -eq		8,49E+00	1,70E-02	5,13E-04	0	0
	ETP-fw ¹	CTUe		2,82E+02	2,88E+00	1,60E-01	0	0
	HTP-c ¹	CTUh		1,94E-08	0,00E+00	5,00E-12	0	0
4 <u>8</u>	HTP-nc ¹	CTUh	CTUh		3,15E-09	2,01E-10	0	0
è	SQP ¹	dimensionless	dimensionless		2,72E+00	8,05E-02	0	0
h	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	7,61E-09	2,44E-08	6,08E-10	-1,29E-07
1 04	IRP ²	kgBq U235 -eq	0	0	8,22E-03	1,56E-02	9,32E-04	-2,29E-02
Ð	ETP-fw ¹	CTUe	0	0	1,39E+00	1,66E+01	4,39E-01	-2,18E+01
40.* ****	HTP-c ¹	CTUh	0	0	0,00E+00	8,95E-10	2,20E-11	-5,46E-10
88 E	HTP-nc ¹	CTUh	0	0	1,52E-09	1,16E-08	8,43E-10	-1,47E-08
	SQP ¹	dimensionless	0	0	1,32E+00	1,34E+00	4,93E-01	-2,41E+01

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. 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 nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use								
	Indicator		Unit	A1-A3	A4	A5	B2	B3
in V	PERE		MJ	2,11E+02	5,57E-02	1,97E-03	0	0
E.	PERM		MJ	6,15E+01	0,00E+00	-5,22E+00	0	0
°≓.	PERT		MJ	2,73E+02	5,57E-02	-5,21E+00	0	0
B	PENRE		MJ	3,04E+02	3,89E+00	1,20E-01	0	0
Ås.	PENRM		MJ	1,70E+00	0,00E+00	0,00E+00	0	0
IA	PENRT		MJ	3,06E+02	3,89E+00	1,20E-01	0	0
	SM		kg	3,46E-01	0,00E+00	0,00E+00	0	0
1	RSF	MJ		5,42E-01	1,99E-03	6,55E-05	0	0
	NRSF	MJ		1,47E+00	7,12E-03	2,70E-04	0	0
<u>%</u>	FW		m ³	3,41E-01	4,16E-04	5,66E-05	0	0
	ndicator	Unit	B4	C1	C2	C3	C4	D
ir Və	PERE	MJ	0					
		נואו	U	0	2,69E-02	6,01E-01	1,80E-02	-2,23E+01
	PERM	MJ	0	0	2,69E-02 0,00E+00	6,01E-01 -5,62E+01	1,80E-02 0,00E+00	-2,23E+01 0,00E+00
29 ~~~	PERM PERT							
		MJ	0	0	0,00E+00	-5,62E+01	0,00E+00	0,00E+00
័ក្ខ	PERT	MJ	0	0	0,00E+00 2,69E-02	-5,62E+01 -5,56E+01	0,00E+00 1,80E-02	0,00E+00 -2,23E+01
F.	PERT PENRE	MJ MJ	0 0 0	0 0 0	0,00E+00 2,69E-02 1,88E+00	-5,62E+01 -5,56E+01 3,66E+00	0,00E+00 1,80E-02 1,77E-01	0,00E+00 -2,23E+01 -3,93E+00
Fr Fr An	PERT PENRE PENRM	MJ MJ	0 0 0 0 0 0 0	0 0 0	0,00E+00 2,69E-02 1,88E+00 0,00E+00	-5,62E+01 -5,56E+01 3,66E+00 -1,70E+00	0,00E+00 1,80E-02 1,77E-01 0,00E+00	0,00E+00 -2,23E+01 -3,93E+00 0,00E+00
r⊊ B Lên T A	PERT PENRE PENRM PENRT	MJ MJ MJ		0 0 0 0	0,00E+00 2,69E-02 1,88E+00 0,00E+00 1,88E+00	-5,62E+01 -5,56E+01 3,66E+00 -1,70E+00 1,96E+00	0,00E+00 1,80E-02 1,77E-01 0,00E+00 1,77E-01	0,00E+00 -2,23E+01 -3,93E+00 0,00E+00 -3,93E+00
	PERT PENRE PENRM PENRT SM	MJ MJ MJ MJ MJ kg	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0,00E+00 2,69E-02 1,88E+00 0,00E+00 1,88E+00 0,00E+00	-5,62E+01 -5,56E+01 3,66E+00 -1,70E+00 1,96E+00 0,00E+00	0,00E+00 1,80E-02 1,77E-01 0,00E+00 1,77E-01 0,00E+00	0,00E+00 -2,23E+01 -3,93E+00 0,00E+00 -3,93E+00 0,00E+00

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; PERT = Total use of non renewable primary energy resources; SENRE = Use of non renewable primary energy resources; SENRE = Use of non renewable primary energy resources; SM = Use of secondary materials; RESF = Use of renewable primary energy resources; SM = Use of secondary materials; RESF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of life - Waste									
	Indicator			nit	A1-A3	A4	A5	B2	B3
A	HWD		k	g	3,62E-02	2,01E-04	0,00E+00	0	0
Ū	NHWD		k	g	2,33E+00	1,89E-01	5,30E-01	0	0
æ	RWD		kg		3,89E-03	2,65E-05	0,00E+00	0	0
In	dicator		Unit	B4	C1	C2	C3	C4	D
A	HWD		kg	0	0	9,70E-05	0,00E+00	1,20E-01	-3,71E-04
Ū	NHWD		kg	0	0	9,14E-02	3,50E-01	8,00E-02	-1,01E-01
8	RWD		kg	0	0	1,28E-05	0,00E+00	2,34E-07	-1,88E-05

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of life - Output flow								
Indic	ator	Ur	Unit		A4	A5	B2	B3
\otimes	CRU	k	9	0,00E+00	0,00E+00	0,00E+00	0	0
\$	MFR	k	9	2,43E-01	0,00E+00	4,93E-01	0	0
DF	MER	k	9	4,18E-01	0,00E+00	7,22E-07	0	0
FD	EEE	N	MJ		0,00E+00	3,03E-02	0	0
DI	EET	M	MJ		0,00E+00	4,59E-01	0	0
Indicator	•	Unit	B4	C1	C2	C3	C4	D
$\otimes $	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0	0	0,00E+00	4,41E-02	0,00E+00	0,00E+00
Þ₽	MER	kg	0	0	0,00E+00	4,54E+00	0,00E+00	0,00E+00
₽Þ	EEE	MJ	0	0	0,00E+00	2,88E+00	0,00E+00	0,00E+00
D	EET	MJ	0	0	0,00E+00	4,35E+01	0,00E+00	0,00E+00

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	2,05E+00
Biogenic carbon content in accompanying packaging	kg C	2,45E-01

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity, Sweden (kWh)	ecoinvent 3.6	54,94	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	-1,11	0,26	7,84	7,54
Total energy consumption	MJ	517,73	3,95	528,21	500,70
Amount of recycled materials	%	6,59			

Additional environmental impact indicators required in NPCR Part A for construction products							
Indicator	Unit		A1-A3	A4	A5	B2	B3
GWPIOBC	kg CO ₂ -eq		6,46E+00	2,57E-01	8,58E-03	0	0
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	1,24E-01	9,49E-01	3,20E-02	-3,16E-01

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.



Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures. ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012 + A2:2019 Environmental product declaration - Core rules for the product category of construction products.

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.

ecoinvent v3, Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.

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