Product Environmental Profile

93E G2 200kVA 3Phase UPS

Representative product	93E200K-G2 (9106-42236) Product Category: Uninterruptible Power Supply (UPS)
Description of the product	Eaton 93E UPS provides a vital power protection for ever-expanding loads in versatile electrical and IT applications. Facilitating lower Total Cost of Ownership (TCO) through a combination of energy-efficiency, high reliability and a compact footprint, Eaton 93E is the ideal solution for small to medium-sized data centers and other applications demanding reliable power protection. 93 E Generation 2 UPS are versatile UPS ideal for Industrial automation equipment, Healthcare, Small and Medium data centres, Financial services, Building management, Telecommunications, Government. It provides two operational modes: online Double Conversion (DC) and Energy Efficiency Mode (ESS) UPS configuration: Transformer-free 3-level IGBT with PWM UPS performance classification: VFI Product dimensions (Width x Depth x Height): 600 x 830 x 1880 Input Dependency Characteristics: Monomode (considered for study) The power factor: 0.9 Power VA & W: 200kVA/180 kW
Homogeneous Environmental Families Covered	The PEP concerns product offerings from 93E G2 3Phase UPS series as mentioned below: • 93E120KMBS-G2 • 93E120K-G2 • 93E160K-G2
Functional unit	To protect the load of 180,000 Watts (200 kVA) against input power failure for 15 years and switch to the energy storage system to avoid power outage.
Company information	Eaton Power Quality Shenzhen, China Email: productstewardship-es@eaton.com

Constituent Materials of			
Reference Product:	5.13E+02 kg (with packaging)		
Category PEP Materials	Material	Mass (kg)	Percentage (%)
Metals	Steel	2.25E+02	44.0%
Others	Electronics	8.88E+01	17.3%
Metals	Aluminium	4.91E+01	9.6%
Others	Wood	3.80E+01	7.4%
Metals	Copper	3.25E+01	6.4%
Others	Cable, high current	2.45E+01	4.8%
Plastics	Polyvinyl chloride	1.92E+01	3.8%
Plastics	Polybutylene Terephthalate	9.90E+00	1.9%
Plastics	Polyamide 6.6	7.22E+00	1.4%
Metals	Brass	4.79E+00	0.9%
Others	PWB	4.74E+00	0.9%
Plastics	Polyethylene	3.33E+00	0.6%
Others	Soldering	1.15E+00	0.2%
Plastics	Polyethylene terephthalate	8.34E-01	0.2%
Plastics	ABS	5.64E-01	0.1%
Others	Miscalleneous	2.39E+00	0.5%
Total		**5.13E+02**	**100%**

Substance Assessment
The representative product is compliant with requirement of article 4 of the EU-RoHS Directive (2011/65/EU) by application of exemptions as per 6(c), 7(a), 7(c)-I, 8(b).

Additional Environmental Information	
Manufacturing	The reference product is assembled at an Eaton plant holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and its associated packaging material with focus to optimize transport efficiency.
Installation	During installation of the product only standard tools are needed, which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	Though maintenance requirements of the UPS have been minimized, the current Product Specific Rule applicable to this kind of product requires the replacement of parts including- manufacturing, delivery to the site of use and waste collection & treatment of: o DC and AC capacitors of filtering (2 times) o Fans (3 times) o Power supply PCBs (2 times)

End of life	The recyclability rate of the overall product is 61.6% if properly dismantled prior to further processing at a recycling facility. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts

The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.
System modelling was carried out using the commercial LCA software EIME v6.1.1 with database version CODDE-2023-02.

Manufacturing Phase	Product is assembled at Eaton Shenzhen plant. Energy model used: China
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product is installed in any European country. Hence, packaging waste treatment is considered in this phase considering average values. A transport of 100 km for service installer is considered by Petrol car. Energy model used: Europe
Use Phase	Reference lifetime: 15 years Energy model used: Europe. Usage profile: The product operates in two modes: It has an average energy efficiency of 95.8% in Double Conversion mode and 98.9% in Energy Saver System mode. The methodology for the calculation of the electricity consumption is based on Uninterruptible Power Supplies (UPS) PSR.

Operating loads	25%	50%	75%	100%
Proportion of Time spent at	0.25	0.50	0.25	0.00

Total energy losses are calculated to be equal to 486.3 MWh in Double conversion mode and 122.1 MWh in Energy Saver System mode over the 15 years. Maintenance is required for AC/DC capacitors, Fans & PCB.

End of life Phase	Product disposed according to European WEEE guidelines. Energy model used: Europe

Environmental Impact considering Double Conversion Mode

Environmental Impact Indicators: Mandatory

Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Resource use, minerals and metals (ADPe)	kg Sb eq.	1.02E+00	9.48E-01	5.88E-06	2.39E-06	6.12E-02	8.12E-03	4.67E-02	1.44E-02
Resource use, fossils (ADPf)	MJ	5.26E+06	1.14E+05	2.08E+03	4.14E+02	5.09E+06	4.71E+04	1.50E+04	5.08E+06
Acidification Potential (AP)	mole of H^+ eq.	1.21E+03	5.89E+01	5.43E+00	1.40E-01	1.14E+03	3.54E+00	6.19E+00	1.14E+03
Eutrophication, freshwater (Epf)	kg P eq.	7.97E-01	1.69E-02	5.65E-05	3.20E-04	5.48E-01	2.32E-01	2.44E-03	5.46E-01
Eutrophication marine (Epm)	kg N eq.	1.38E+02	5.47E+00	1.29E+00	6.29E-02	1.30E+02	7.31E-01	7.37E-01	1.29E+02
Eutrophication, terrestrial (Ept)	mol N eq.	2.03E+03	5.97E+01	1.42E+01	5.56E-01	1.95E+03	6.04E+00	7.68E+00	1.94E+03
Climate change-Total (GWP)	kg CO_2 eq.	2.08E+05	7.28E+03	1.64E+02	6.81E+01	2.00E+05	7.81E+02	7.90E+02	1.99E+05
Climate change-Biogenic (GWPb)	kg CO_2 eq.	3.21E+02	4.18E+01	0.00E+00	3.11E-02	2.72E+02	7.52E+00	5.98E+00	2.66E+02
Climate change-Fossil (GWPf)	kg CO_2 eq.	2.08E+05	7.23E+03	1.64E+02	6.80E+01	2.00E+05	7.73E+02	7.84E+02	1.99E+05
Climate change-Land use and land use change (GWPlu)	kg CO_2 eq.	6.67E-04	2.68E-04	0.00E+00	2.06E-04	8.02E-07	1.92E-04	8.02E-07	0.00E+00
Ozone depletion (ODP)	kg CFC-11 eq.	1.77E-03	7.26E-04	2.15E-07	2.02E-05	1.01E-03	1.64E-05	1.58E-04	8.52E-04
Photochemical ozone formation - human health (POCP)	kg NMVOC eq.	4.45E+02	2.07E+01	3.65E+00	1.97E-01	4.18E+02	2.03E+00	3.46E+00	4.15E+02
Water use (WU)	m^3 eq.	1.49E+04	2.17E+03	5.42E-01	9.91E+00	7.74E+03	4.95E+03	6.91E+02	7.05E+03

*Note: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.80E+05	3.95E+03	2.67E+00	2.51E+00	9.75E+05	1.89E+02	2.70E+02	9.75E+05
Use of renewable primary energy resources used as raw material	MJ	1.11E+03	1.11E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	9.81E+05	5.06E+03	2.67E+00	2.51E+00	9.75E+05	1.89E+02	2.70E+02	9.75E+05
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.25E+06	1.11E+05	2.08E+03	4.14E+02	5.09E+06	4.71E+04	1.36E+04	5.08E+06
Use of non renewable primary energy resources used as raw material	MJ	3.98E+03	2.56E+03	0.00E+00	0.00E+00	1.42E+03	0.00E+00	1.42E+03	0.00E+00

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Total use of non-renewable primary energy resources	MJ	5.26E+06	1.14E+05	2.08E+03	4.14E+02	5.09E+06	4.71E+04	1.50E+04	5.08E+06
Use of secondary material	Kg	7.77E+00	7.77E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	1.37E-03	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m^3	3.65E+02	5.06E+01	1.26E-02	2.31E-01	1.82E+02	1.32E+02	1.77E+01	1.64E+02
Components for reuse	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	Kg	3.36E+02	6.79E-04	0.00E+00	3.14E+00	9.28E-01	3.32E+02	9.28E-01	0.00E+00
Materials for energy recovery	Kg	5.45E+01	8.84E-08	0.00E+00	1.90E+01	2.41E+00	3.31E+01	2.41E+00	0.00E+00
Exported Energy	MJ	3.11E+01	1.42E+01	0.00E+00	1.68E+01	0.00E+00	4.01E-02	0.00E+00	0.00E+00
Hazardous waste disposed	Kg	1.85E+04	1.38E+04	0.00E+00	6.46E-02	4.21E+03	5.06E+02	4.87E+02	3.72E+03
Non hazardous waste disposed	Kg	3.42E+04	5.14E+03	5.03E+00	4.24E+01	2.90E+04	7.56E+01	2.73E+02	2.87E+04
Radioactive waste disposed	Kg	8.21E+00	2.04E+00	3.50E-03	5.78E-03	6.14E+00	2.03E-02	1.39E-01	6.00E+00
Biogenic carbon content of the product	Kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	Kg C	1.50E+01	1.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Ecotoxicity, freshwater	CTUe	7.63E+07	2.86E+05	1.01E+02	5.54E+02	2.17E+06	7.38E+07	1.91E+04	2.15E+06
Human toxicity, cancer	CTUh-c	1.09E-03	1.06E-03	2.46E-09	1.67E-07	2.57E-05	1.11E-05	2.42E-06	2.32E-05
Human toxicity, non-cancer	CTUh-nc	2.24E-03	4.13E-04	4.84E-07	3.73E-07	9.38E-04	8.86E-04	1.62E-05	9.22E-04
Ionising radiation, human health	kBq U235 eq.	4.35E+05	5.98E+04	3.41E-01	1.44E+00	3.75E+05	3.12E+01	7.87E+04	2.96E+05
Land use	--	4.73E+03	1.48E+01	0.00E+00	3.03E+01	3.98E+03	7.02E+02	1.42E+01	3.97E+03
EF-particulate Matter	Disease occurrence	9.26E-03	3.57E-04	2.87E-05	8.69E-07	8.86E-03	1.80E-05	3.42E-05	8.82E-03
Total Primary Energy	MJ	6.24E+06	1.19E+05	2.08E+03	4.17E+02	6.07E+06	4.73E+04	1.53E+04	6.05E+06

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact considering Energy Saver System Mode

Environmental Impact Indicators: Mandatory

Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Resource use, minerals and metals (ADPe)	kg Sb eq.	1.01E+00	9.48E-01	5.88E-06	2.39E-06	5.04E-02	8.12E-03	4.67E-02	3.63E-03
Resource use, fossils (ADPf)	MJ	1.45E+06	1.14E+05	2.08E+03	4.14E+02	1.29E+06	4.71E+04	1.50E+04	1.28E+06
Acidification Potential (AP)	mole of H^+ eq.	3.60E+02	5.89E+01	5.43E+00	1.40E-01	2.92E+02	3.54E+00	6.19E+00	2.86E+02
Eutrophication, freshwater (Epf)	kg P eq.	3.88E-01	1.69E-02	5.65E-05	3.20E-04	1.39E-01	2.32E-01	2.44E-03	1.37E-01
Eutrophication marine (Epm)	kg N eq.	4.07E+01	5.47E+00	1.29E+00	6.29E-02	3.32E+01	7.31E-01	7.37E-01	3.24E+01
Eutrophication, terrestrial (Ept)	mol N eq.	5.76E+02	5.97E+01	1.42E+01	5.56E-01	4.95E+02	6.04E+00	7.68E+00	4.87E+02
Climate change-Total (GWP)	kg CO_2 eq.	5.91E+04	7.28E+03	1.64E+02	6.81E+01	5.08E+04	7.81E+02	7.90E+02	5.00E+04
Climate change-Biogenic (GWPb)	kg CO_2 eq.	1.22E+02	4.18E+01	0.00E+00	3.11E-02	7.27E+01	7.52E+00	5.98E+00	6.68E+01
Climate change-Fossil (GWPf)	kg CO_2 eq.	5.90E+04	7.23E+03	1.64E+02	6.80E+01	5.08E+04	7.73E+02	7.84E+02	5.00E+04
Climate change-Land use and land use change (GWPlu)	kg CO_2 eq.	6.67E-04	2.68E-04	0.00E+00	2.06E-04	8.02E-07	1.92E-04	8.02E-07	0.00E+00
Ozone depletion (ODP)	kg CFC-11 eq.	1.14E-03	7.26E-04	2.15E-07	2.02E-05	3.72E-04	1.64E-05	1.58E-04	2.14E-04
Photochemical ozone formation - human health (POCP)	kg NMVOC eq.	1.34E+02	2.07E+01	3.65E+00	1.97E-01	1.08E+02	2.03E+00	3.46E+00	1.04E+02
Water use (WU)	m^3 eq.	9.59E+03	2.17E+03	5.42E-01	9.91E+00	2.46E+03	4.95E+03	6.91E+02	1.77E+03

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.49E+05	3.95E+03	2.67E+00	2.51E+00	2.45E+05	1.89E+02	2.70E+02	2.45E+05
Use of renewable primary energy resources used as raw material	MJ	1.11E+03	1.11E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	2.50E+05	5.06E+03	2.67E+00	2.51E+00	2.45E+05	1.89E+02	2.70E+02	2.45E+05
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.45E+06	1.11E+05	2.08E+03	4.14E+02	1.29E+06	4.71E+04	1.36E+04	1.28E+06
Use of non renewable primary energy resources used as raw material	MJ	3.98E+03	2.56E+03	0.00E+00	0.00E+00	1.42E+03	0.00E+00	1.42E+03	0.00E+00

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Total use of non-renewable primary energy resources	MJ	1.45E+06	1.14E+05	2.08E+03	4.14E+02	1.29E+06	4.71E+04	1.50E+04	1.28E+06
Use of secondary material	Kg	7.77E+00	7.77E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	1.37E-03	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m^3	2.42E+02	5.06E+01	1.26E-02	2.31E-01	5.90E+01	1.32E+02	1.77E+01	4.12E+01
Components for reuse	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	Kg	3.36E+02	6.79E-04	0.00E+00	3.14E+00	9.28E-01	3.32E+02	9.28E-01	0.00E+00
Materials for energy recovery	Kg	5.45E+01	8.84E-08	0.00E+00	1.90E+01	2.41E+00	3.31E+01	2.41E+00	0.00E+00
Exported Energy	MJ	3.11E+01	1.42E+01	0.00E+00	1.68E+01	0.00E+00	4.01E-02	0.00E+00	0.00E+00
Hazardous waste disposed	Kg	1.57E+04	1.38E+04	0.00E+00	6.46E-02	1.42E+03	5.06E+02	4.87E+02	9.35E+02
Non hazardous waste disposed	Kg	1.27E+04	5.14E+03	5.03E+00	4.24E+01	7.47E+03	7.56E+01	2.73E+02	7.20E+03
Radioactive waste disposed	Kg	3.72E+00	2.04E+00	3.50E-03	5.78E-03	1.65E+00	2.03E-02	1.39E-01	1.51E+00
Biogenic carbon content of the product	Kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	Kg C	1.50E+01	1.50E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of Life (C1-C4)	Use (B2*)	Use (B6*)
Ecotoxicity, freshwater	CTUe	7.47E+07	2.86E+05	1.01E+02	5.54E+02	5.58E+05	7.38E+07	1.91E+04	5.39E+05
Human toxicity, cancer	CTUh-c	1.08E-03	1.06E-03	2.46E-09	1.67E-07	8.26E-06	1.11E-05	2.42E-06	5.84E-06
Human toxicity, non-cancer	CTUh-nc	1.55E-03	4.13E-04	4.84E-07	3.73E-07	2.48E-04	8.86E-04	1.62E-05	2.31E-04
Ionising radiation, human health	kBq U235 eq.	2.13E+05	5.98E+04	3.41E-01	1.44E+00	1.53E+05	3.12E+01	7.87E+04	7.44E+04
Land use	--	1.76E+03	1.48E+01	0.00E+00	3.03E+01	1.01E+03	7.02E+02	1.42E+01	9.96E+02
EF-particulate Matter	Disease occurrence	2.65E-03	3.57E-04	2.87E-05	8.69E-07	2.25E-03	1.80E-05	3.42E-05	2.22E-03
Total Primary Energy	MJ	1.70E+06	1.19E+05	2.08E+03	4.17E+02	1.54E+06	4.73E+04	1.53E+04	1.52E+06

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

To evaluate the environmental impact of other product covered by this PEP, apply the following conversion factors to the Environmental Impact shown above:

Conversion Factors for Manufacturing, Distribution, Installation, Use and End-of-Life Phase:

Products	Impact indicators	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO_2 eq.)	GWPb (kg CO_2 eq.)	GWPf (kg CO_2 eq.)	GWPlu (kg CO_2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m^3 eq.)
93E200K-G2	All Phases (DC mode)	1.00												
93E120KMBS-G2 93E120K-G2	Manufacturing	1.09	0.59	0.60	0.64	0.60	0.60	0.61	0.57	0.61	1.80	0.60	0.61	0.72
	Distribution	0.73												
	Installation	1.00												
	Use (B2)	0.87	0.64	0.66	0.56	0.59	0.59	0.68	0.56	0.68	1.00	0.61	0.57	0.55
	Use (B6)-DC*	0.59												
	Use (B6)-ESS*	0.15												
	End of Life	0.48	0.81	0.72	0.53	0.73	0.74	0.78	0.59	0.78	0.37	0.65	0.76	0.71
93E160K-G2	Manufacturing	1.00												
	Distribution	1.00												
	Installation	1.00												
	Use (B2)	1.00												
	Use (B6)-DC*	0.80												
	Use (B6)-ESS*	0.20												
	End of Life	1.00												

*Extrapolation factor of Use B6 are applicable for both modes - Double conversion and Energy Saver System mode (ESS). Reference product with double conversion mode impacts to be consider while extrapolating the use phase B6 impacts for other configurations in homogeneous environmental family.

Disclaimer

This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

Registration Number	EATO-000118-V01.01-EN	*Drafting rules*	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH53	Supplemented by	PSR-0010-ed1.1-EN-2015 10 16
Date of issue	02-2024	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2010			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 *The components of the present PEP may not be compared with components from any other program.*			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			