

# Product Environmental Profile

## OVALIS 2 WAY SWITCH WITH OUTER PLATE

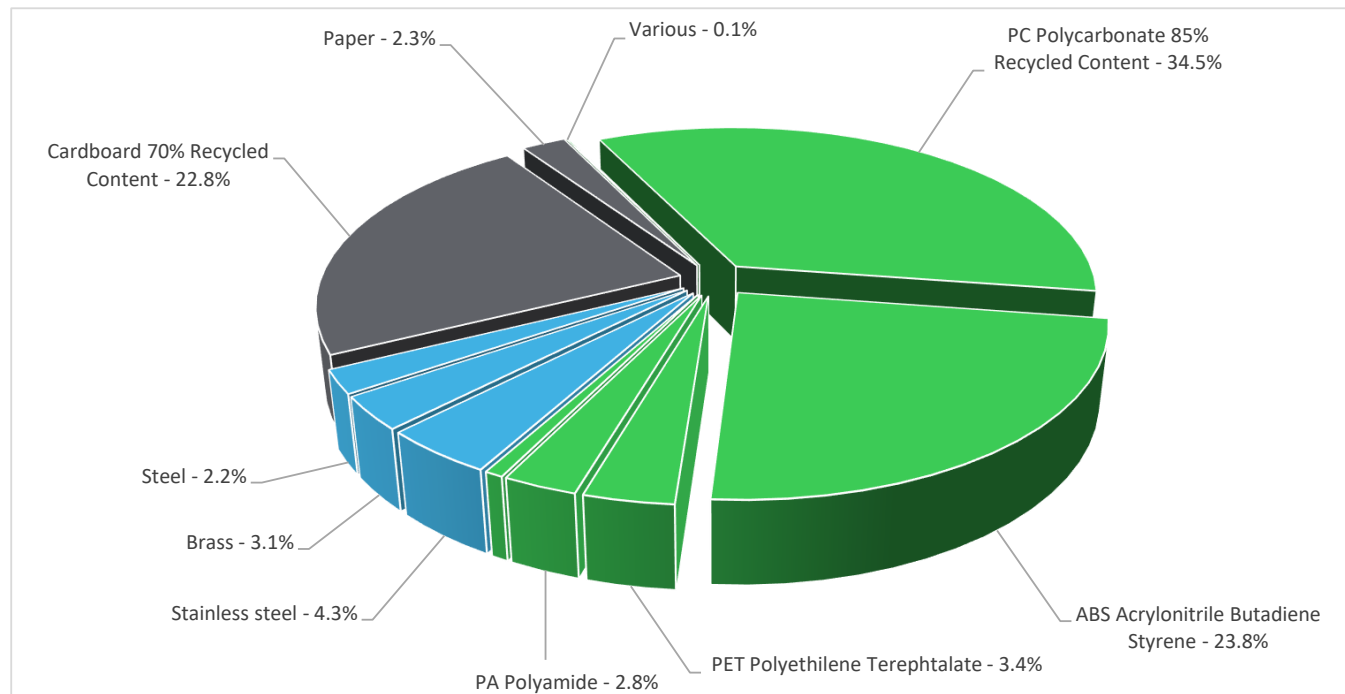


## General information

<b>Representative product</b>	OVALIS 2 WAY SWITCH WITH OUTER PLATE - S320204 + S320702
<b>Description of the product</b>	The main purpose of the Ovalis switches as product range is to give a solution for the control of electricity networks, like for lightings, roller blind motors, fans.
<b>Description of the range</b>	The indicators values of this OVALIS 2-Way switch can be extrapolated for other OVALIS switches, for all finishing types, with or without associated accessories. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
<b>Functional unit</b>	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 10A, including any conditions specified for overload in operation characterized by the current 10A, for the operating voltage 250V, for a specified time.

## Constituent materials

Reference product mass 69 g including the product, its packaging



Plastics	65.2%
Metals	9.6%
Others	25.2%

## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

## Additional environmental information

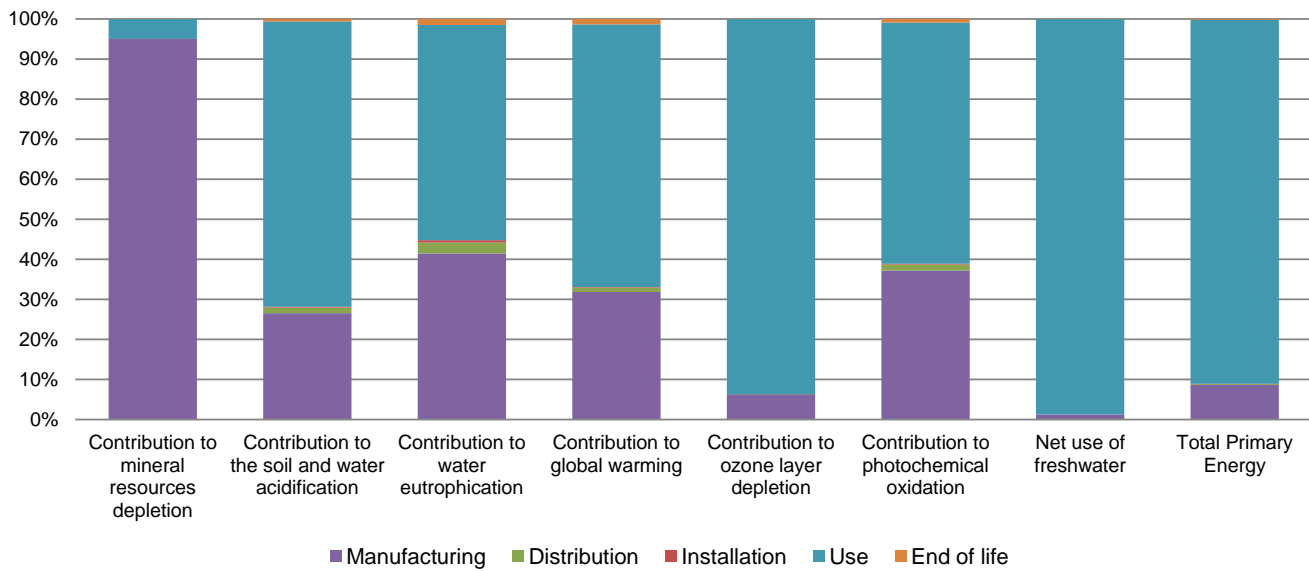
The OVALIS 2 WAY SWITCH WITH OUTER PLATE presents the following relevant environmental aspects

<b>Design</b>	Ovalis Switches are made of at least 45% plastic recycled content.
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 19.9 g, consisting of Cardboard (80%), PET film (12%) & Paper (8%) Packaging recycled materials is 55% of total packaging mass. Product distribution optimised by setting up local distribution centres
<b>Installation</b>	This product does not require special installation operation. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>79%</b> Based on Reecyclab tool of ecosystem (for Polycarbonate) and "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

<b>Reference life time</b>	20 years			
<b>Product category</b>	Switches			
<b>Installation elements</b>	This product does not require any special components during installation			
<b>Use scenario</b>	The product is in active mode 30% of the time with a power use of 0.0875W and in off mode 70% of the time with a power use of 0 W, for 20 years			
<b>Geographical representativeness</b>	France			
<b>Technological representativeness</b>	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Manufacturing Plant Location: Puente la Reina, Spain	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR

Compulsory indicators		OVALIS 2 WAY SWITCH WITH OUTER PLATE - S320204 + S320702					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.97E-06	4.72E-06	0*	0*	2.44E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	2.61E-03	6.93E-04	3.70E-05	4.88E-06	1.86E-03	1.51E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.15E-04	1.31E-04	8.51E-06	1.88E-06	1.70E-04	4.68E-06
Contribution to global warming	kg CO <sub>2</sub> eq	7.63E-01	2.43E-01	8.24E-03	1.19E-03	5.00E-01	1.02E-02
Contribution to ozone layer depletion	kg CFC11 eq	7.63E-07	4.80E-08	0*	0*	7.15E-07	3.10E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.79E-04	6.65E-05	2.63E-06	3.67E-07	1.08E-04	1.57E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.20E+01	1.55E-01	0*	0*	1.18E+01	0*
Total Primary Energy	MJ	5.02E+01	4.33E+00	1.17E-01	1.51E-02	4.56E+01	7.26E-02



Optional indicators		OVALIS 2 WAY SWITCH WITH OUTER PLATE - S320204 + S320702					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	9.29E+00	3.35E+00	1.16E-01	1.47E-02	5.75E+00	5.82E-02
Contribution to air pollution	m <sup>3</sup>	4.53E+01	2.77E+01	3.38E-01	6.35E-02	1.67E+01	5.31E-01
Contribution to water pollution	m <sup>3</sup>	7.94E+01	5.18E+01	1.36E+00	1.72E-01	2.53E+01	6.90E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.23E-02	4.23E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.50E+00	1.96E-01	0*	0*	3.31E+00	0*
Total use of non-renewable primary energy resources	MJ	4.67E+01	4.14E+00	1.16E-01	1.50E-02	4.23E+01	7.25E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.43E+00	1.21E-01	0*	0*	3.31E+00	0*
Use of renewable primary energy resources used as raw material	MJ	7.53E-02	7.53E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.59E+01	3.34E+00	1.16E-01	1.50E-02	4.23E+01	7.25E-02
Use of non renewable primary energy resources used as raw material	MJ	7.96E-01	7.96E-01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*

Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	4.09E-01	3.48E-01	0*	0*	9.43E-04	6.04E-02
Non hazardous waste disposed	kg	1.41E+00	3.82E-01	2.93E-04	2.04E-03	1.02E+00	2.24E-04
Radioactive waste disposed	kg	1.53E-02	1.78E-04	0*	0*	1.51E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.41E-02	6.78E-03	0*	1.81E-02	0*	3.93E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.85E-03	0*	0*	0*	0*	1.85E-03
Exported Energy	MJ	5.53E-05	5.19E-06	0*	5.01E-05	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version 5.9.3, database version 2020-12 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicators Abiotic depletion (elements, ultimate reserves) (ADPe for EN15804). The Manufacturing phase & Use phase are impacting equally on Indicator of Acidification potential of soil and water (total average for Europe) (A for PEP), Eutrophication (fate not incl.) (EP for EN15804), Photochemical oxidation (high NOx) (POCP for EN15804) & Global warming (GWP100) (GWP for EN15804). The Use phase is impacting on the indicators Net use of freshwater, Ozone layer depletion ODP steady state (ODP for EN15804) & Total Prime Energy.

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Verifier accreditation N°	VH39	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	06/2022	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal		External	X
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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