

# Product Environmental Profile

## AUXILIARIES iMSU





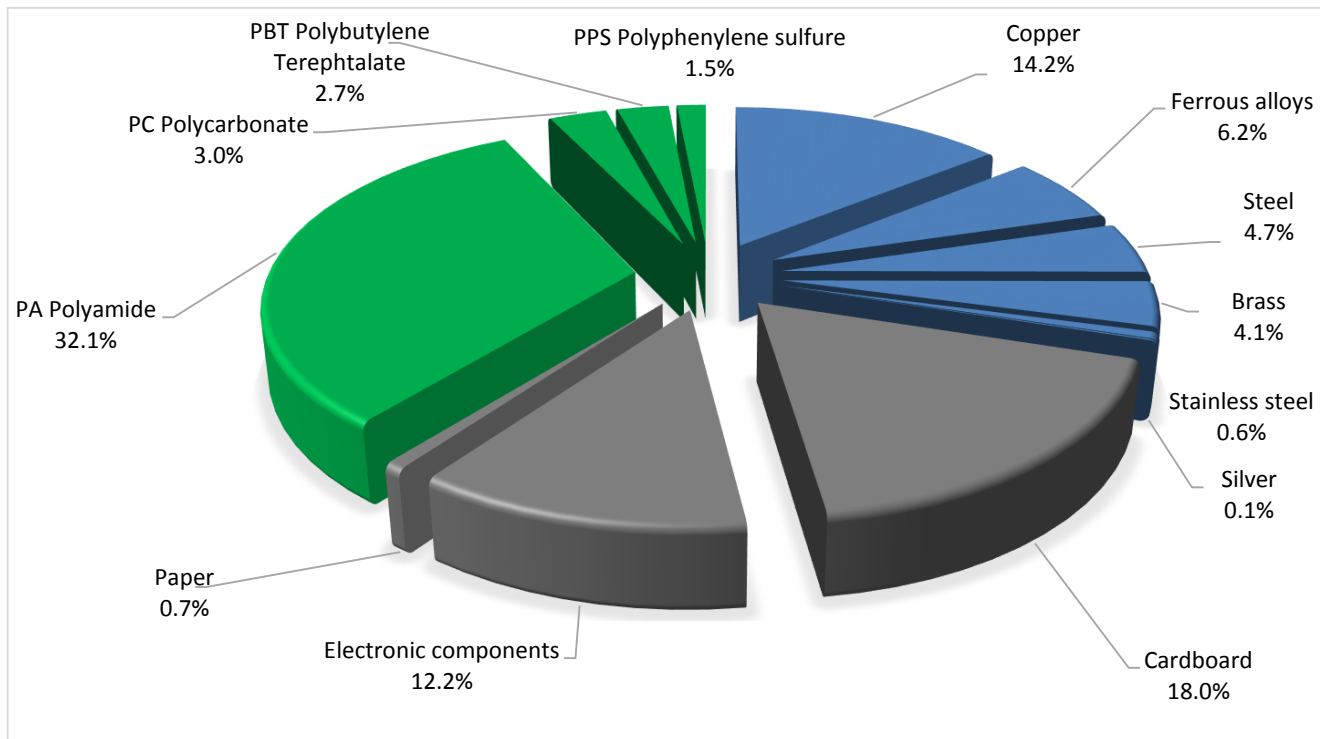
## General information

<b>Representative product</b>	AUXILIARIES iMSU - A9A26500
<b>Description of the product</b>	Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/neutral voltage is exceeded.
<b>Functional unit</b>	<p>Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/neutral voltage is exceeded (loss of neutral) during 20 years.</p> <p>-Rated voltage: 230V AC                      -operating frequency: 50/60HZ                      -Maxium operating time and minimum non-response time:                      255V AC, no tripping;                      275V AC, 15s(Max) and 3s(Min)                      300V AC, 5s(Max) and 1s(Min)                      350V AC, 0.75s(Max) and 0.25s(Min)                      400V AC, 0.2s(Max) and 0.07s(Min)</p>



## Constituent materials

<b>Reference product mass</b>	95 g including the product, its packaging and additional elements and accessories
-------------------------------	---



Plastics	39.3%
Metals	29.9%
Others	30.9%

## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

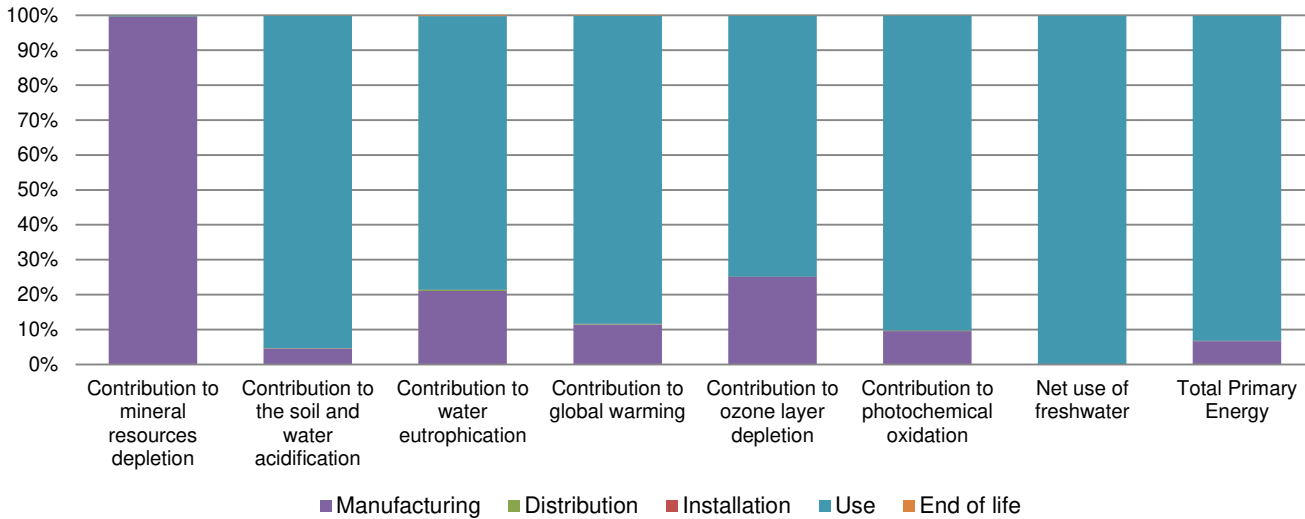
The AUXILIARIES IMSU presents the following relevant environmental aspects

<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 17.9 g, consisting of Paper(3.5%); cardboard (96.5%)
<b>Installation</b>	Ref A9A26500 does not require any installation operations
<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 This product contains electronic card (11.35g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a> Recyclability potential: <b>35%</b> 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

<b>Reference life time</b>	20 years			
<b>Product category</b>	Blocks and differential switches			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Load rate: 50% of In Use time rate: 30% of RLT			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	Switches off the power supply by opening the breaker with which it is combined, in the event that the phase/neutral voltage is exceeded.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Belgium	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		AUXILIARIES iMSU - A9A26500					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.47E-04	2.46E-04	0*	0*	8.39E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4.23E-02	1.93E-03	5.60E-05	0*	4.03E-02	2.16E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.10E-03	6.52E-04	1.29E-05	0*	2.43E-03	6.68E-06
Contribution to global warming	kg CO <sub>2</sub> eq	1.09E+01	1.26E+00	1.23E-02	0*	9.66E+00	1.45E-02
Contribution to ozone layer depletion	kg CFC11 eq	8.41E-07	2.11E-07	0*	0*	6.29E-07	5.58E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2.45E-03	2.34E-04	3.99E-06	0*	2.21E-03	2.19E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.50E+01	8.81E-03	0*	0*	3.50E+01	0*
Total Primary Energy	MJ	2.07E+02	1.39E+01	1.73E-01	0*	1.93E+02	1.03E-01



Optional indicators		AUXILIARIES iMSU - A9A26500					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.23E+02	1.34E+01	1.72E-01	0*	1.10E+02	9.41E-02
Contribution to air pollution	m <sup>3</sup>	6.20E+02	2.03E+02	5.21E-01	0*	4.16E+02	7.49E-01
Contribution to water pollution	m <sup>3</sup>	6.55E+02	2.54E+02	2.02E+00	0*	3.98E+02	9.84E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.84E-03	2.84E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.53E+01	7.95E-01	0*	0*	2.45E+01	0*
Total use of non-renewable primary energy resources	MJ	1.82E+02	1.31E+01	1.73E-01	0*	1.68E+02	1.03E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.50E+01	4.40E-01	0*	0*	2.45E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3.56E-01	3.56E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.81E+02	1.20E+01	1.73E-01	0*	1.68E+02	1.03E-01
Use of non renewable primary energy resources used as raw material	MJ	1.14E+00	1.14E+00	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	3.02E+00	2.90E+00	0*	0*	5.03E-03	1.14E-01
Non hazardous waste disposed	kg	3.64E+01	3.86E-01	0*	0*	3.60E+01	0*
Radioactive waste disposed	kg	2.43E-02	2.52E-04	0*	0*	2.40E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.79E-02	5.98E-03	0*	1.78E-02	0*	2.42E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.87E-03	2.74E-04	0*	0*	0*	2.60E-03
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.0, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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.

<i>Registration number</i>	ENVPEP1304030_V2-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Date of issue</i>	10/2018	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Validity period</i>	5 years	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

Schneider Electric Industries SAS

Country Customer Care Center  
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

Published by Schneider Electric

ENVPEP1304030\_V2-EN

© 2017 - Schneider Electric – All rights reserved

10/2018