



Doc. no. 1TGB181045
 Rev. ind. B
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Environmental Information

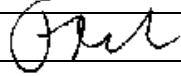
To:

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The purpose of this template is to support the compilation of mandatory environmental information requested in the procedure for Industrial ^{IT} Enabled level 0.

The template is applicable to all hardware products.

Product name	MNS ¹
ABB Identity number	Individual ordering code for each project
Information provided by (Name and e-mail address)	Ralf Graf Ralf.graf@de.abb.com
Business area	Low Voltage Products – ATLV
Date	05.04.2002

Approved	R&D Manager		Matthias Forstbach
Released	Product Manager		Steffen Vree
Released	LSO		Edgar Bignion

1. Related documents

Industrial ^{IT} Architecture - Introduction and Definitions, 3BSE023904

Industrial ^{IT} Certification Overview, 3BSE023905

Industrial ^{IT} Certification Guideline, 3BSE024526

Industrial ^{IT} Enabled Level 0 - Information, Introduction and Definitions, 3BSE025934

Ref documents:

[http://inside.abb.com/The_Insider/Featured_Portals/Industrial IT Deployment/06 Product Certification/Document Library](http://inside.abb.com/The_Insider/Featured_Portals/Industrial_IT_Deployment/06_Product_Certification/Document_Library)

¹ Due to missing datas of components and electrical devices this environmental information is only describing the situation for the product itself without those. Insum is also not considered herein.

Group Function Sustainability Affairs

2. Template for Environmental Information

2.1 Content of hazardous materials

Declare the presence of hazardous materials in the product. Printed circuit boards are declared separately under 2.1.1 and should be excluded from the declaration in the table below.

Material	Example application	Yes	No	Quantity/unit Optional ⁽¹⁾
Lead	Batteries, cables		✓	
Cadmium	Batteries, switches, additive in lead		✓	
Mercury	Batteries, switches		✓	
Beryllium	Contact springs		✓	
Brominated flame retardants, e.g: PBB, PBDE, TBBPA	Additive in plastics or rubber	✓	✓	Only one plastic material is used which contains brominated flame retardants. Polystyrol445EWU contains less than 5% brominated flame retardants. This means: <ul style="list-style-type: none"> - max. 1kg/m switchgear-width for protection classes IP4x (means 0,05kg brominated flame retardants); - max. 7,63kg/m switchgear width with small withdrawable modules (means 0,38kg brominated flame retardants) and 0,212kg per small withdrawable module (means 0,01kg brominated flame retardants)
HCFCs, e.g: R 22, R 123, R 141b	Cooling media		✓	
SF6, sulphurhexafluoride	Breakers		✓	
Polyvinyl chloride, PVC	Cables	✓	✓	Standard: <ul style="list-style-type: none"> • H07 wiring main-circuit • H05 wiring control-circuit and bus-cables • Topstripe 0,6kg/m cubicle width • Cable bellows max. 2,5kg per cubicle with withdrawable modules Option: PVC free version available on customer request

(1) Strive to declare the quantity. This is optional, however, since it is today sometimes difficult to retrieve such information, especially regarding supplied components.

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2.1.1 Printed circuit boards

Specify the amount of printed circuit boards used in the product by declaring the total board surface:

- < 1 dm²
- 1-10 dm²
- > 10 dm²
- No printed circuit boards used in the product

2.2 Recycling information

Is recycling information for the product available?

- Yes Ref. Document:....**1TGL179000**
- No

If No, please specify, in the table below, the component/part/physical position where the material is present:

Material	Component/part/physical position
Lead	
Cadmium	
Mercury	
Beryllium	
Brominated flame retardants	
HCFCs	
SF6, sulphurhexafluoride	
Polyvinyl chloride, PVC	

2.3 Energy use and/or losses during the operation of the product

Is energy use and/or losses during operation of the product specified in the product documentation?

- Yes Ref. Document:.....**Included in order documentation**
- No
- Not relevant