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## Environmental Information

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The purpose of this document is to provide environmental information requested in the procedure for Industrial <sup>IT</sup> Enabled level 0.

Product name	Contactors AL9 / AL9RT / AL9ST / AL9Z / AL9ZST / TAL9 / TAL9RT / TAL9ST Contactors AL12 / AL12RT / AL12ST / AL12Z / AL12ZST / TAL12 / TAL12RT / TAL12ST Contactors AL16 / AL16RT / AL16ST / AL16Z / AL16ZST / TAL16 / TAL16RT / TAL16ST
ABB Identity number	1SBL143xxxRxxxx / 1SBL144xxxRxxxx 1SBL163xxxRxxxx / 1SBL164xxxRxxxx 1SBL183xxxRxxxx / 1SBL184xxxRxxxx
Information provided by (Name and e-mail address)	Corinne MAILLET Corinne.maillet@fr.abb.com
Business area	Low Voltage Products - ATAP
Date	November 2006

### 1. Related documents

Industrial <sup>IT</sup> Architecture - Introduction and Definitions, 3BSE023904

Industrial <sup>IT</sup> Certification Overview, 3BSE023905

Industrial <sup>IT</sup> Certification Guideline, 3BSE024526

Industrial <sup>IT</sup> 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)

Group Function Sustainability Affairs

## 2. 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 <i>Optional</i> <sup>(1)</sup>
Lead	Batteries, cables		<input checked="" type="checkbox"/>	
Cadmium	Batteries, switches, additive in lead		<input checked="" type="checkbox"/>	
Mercury	Batteries, switches		<input checked="" type="checkbox"/>	
Beryllium	Contact springs	<input checked="" type="checkbox"/>		5.00 e-05 Kg
Brominated flame retardants, e.g: PBB, PBDE, TBBPA	Additive in plastics or rubber		<input checked="" type="checkbox"/>	
HCFCs, e.g: R 22, R 123, R 141b	Cooling media		<input checked="" type="checkbox"/>	
SF6, sulphurhexafluoride	Breakers		<input checked="" type="checkbox"/>	
Polyvinyl chloride, PVC	Cables	<input checked="" type="checkbox"/>		< 1 e-03 Kg

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

#### 2.1.1 Printed circuit boards

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

- < 1 dm<sup>2</sup>
- 1-10 dm<sup>2</sup>
- > 10 dm<sup>2</sup>
- No printed circuit boards used in the product

2.2 Recycling information

Is recycling information for the product available?

- Yes Ref. Document:.....
- 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	No
Cadmium	No
Mercury	No
Beryllium	Contact spring (screwless)
Brominated flame retardants	No
HCFCs	No
SF6, sulphurhexafluoride	No
Polyvinyl chloride, PVC	Movable contact carrier / Terminal connection (screwless)

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 : See technical data in catalogue
- No
- Not relevant