Materials Declaration Management Standard

Developed by the Materials Declaration Task Group (E-31b) of the Supplier Declaration Subcommittee (E-31) of IPC

Users of this publication are encouraged to participate in the development of future revisions.

Contact:

IPC
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1 SCOPE
This standard establishes the requirements for exchanging material and substance data between suppliers and their customers for electrical and electronic products and other products. This standard applies to products, components, subproducts, complex objects, articles, materials, mixtures and substances that are supplied to producers for incorporation into their products. It covers materials, mixtures and substances that may be present in the supplied product, subproduct, complex object or article. It does not apply to process chemicals, unless those process chemicals constitute part of the finished product, subproduct, complex object or article.

1.1 Purpose This standard is intended to benefit suppliers and their customers by providing consistency and efficiency to the material declaration process. It establishes standard electronic data exchange formats that will facilitate and improve data transfer along the entire global supply chain.

This standard includes new functionality which enables reporting different products with different declaration classes in the same XML file. The standard also enables the supplier to use subproducts in a Class D XML to report articles in the complex object provided that the XML file includes declarations for the subproducts. The sub-products can be declared using different declaration classes.

1.2 Classes This standard establishes four classes for declaration of materials. Classes may be combined as desired.

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
<th>Declaration Type</th>
<th>Detailed Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Reporting in Query/Reply format</td>
<td>Query/Reply</td>
<td>Supplier provides responses to standard queries and/or optional custom queries as shown in Section 7-1.</td>
</tr>
<tr>
<td>B</td>
<td>Material Category reporting</td>
<td>Material Category</td>
<td>Supplier states the amount of different categories of materials within a product.</td>
</tr>
<tr>
<td>C</td>
<td>Substance category reporting at the product level</td>
<td>Substance category compliance declaration</td>
<td>Supplier provides mass and/or concentration of substance category at the product level if above thresholds.</td>
</tr>
<tr>
<td>D</td>
<td>Substance reporting at the homogeneous material level. Reporting of subproducts in a product</td>
<td>Substance composition disclosure. Subproducts within a product</td>
<td>Supplier provides location, mass, substances at homogeneous material level. Supplier can use subproduct to report articles in the complex object provided that the XML file includes declarations for the subproducts</td>
</tr>
</tbody>
</table>

2 APPLICABLE DOCUMENTS
The following documents form a part of this standard to the extent specified herein. The revision of the document in effect at the time of solicitation shall take precedence.

The requirements of the generic standard, IPC-1751, are a mandatory part of this standard.

2.1 IPC

IPC-T-50 Terms and Definitions for Interconnecting and Packaging Electronic Circuits

Version 3.0:

IPC-1751A Generic Requirements for Declaration Process Management

IPC-1752B Materials Declaration Management

1. www.ipc.org