



**IPC-1752A with Amendments 1 and 2**

# **Materials Declaration Management**

Developed by the Materials Declaration Task Group (2-18b) of the  
Supplier Declaration Subcommittee (2-18) of IPC

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

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## Foreword

While IPC-1751 defines the generic requirements for declaration process management, IPC-1752 establishes a standard reporting format for material declaration data exchange between supply chain participants and supports reporting of bulk materials, components, printed circuit boards (PCBs), sub-assemblies, and products. This standard defines the content and requirements for four distinct classes of declarations that can be used between members of a supply chain relationship.

1752 - Class A: Declaration Query/Reply

1752 - Class B: Material Group Declaration

1752 - Class C: Material Composition Summary Declaration - Product Level

1752 - Class D: Material Composition Declaration - Homogeneous Material Level, with JIG-101 (latest revision) list

The initial focus of material reporting is the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS). In April, 2005 the Electronic Industries Alliance, Japan Green Procurement Survey Standardization Initiative and the Joint Electronic Device Engineering Council (JEDEC) published the Joint Industry Guide Material Composition Declaration for Electronic Products (JIG-101), which established the materials and substances to be disclosed by suppliers when those materials and substances are present in products and subproducts that are incorporated into electrical and electronic equipment. The IPC-1752 standard supports the substance disclosure requirements outlined by the latest version of JIG-101 and accommodates disclosure of additional substance information.

There are several appendices to the 1752 which represent various lists taken from legal directives and other standard bodies. These lists are subject to change; therefore, corresponding appendices in this standard will be amended to reflect those changes at regular intervals. In addition, some substances/materials may exist on more than one list, and since a requester may require meeting more than one material reporting convention described in the appendices, users should be aware that duplicate reporting of a single substance in a material could result from adhering to the reporting conventions of more than one appendix. Tool designers for 1752 implementation are cautioned to consider screening to remove duplication prior to summing the mass or calculating mass percentages.

This standard will be updated to reflect changes affecting the global market. The methodology for update is described in the section on standard maintenance.

Version 1.1 of this standard was supported by two Portable Document Format (PDF) forms (1752-1 and 1752-2) and the Users Guide (1752-3). However, starting with version 2.0, this standard will not be supported directly with a PDF form. Third party software developers are invited to supply the implementation tool, and one organization has already made a free download implementation tool available. In version 2.0 the data exchange format is specified as Extensible Markup Language (XML).

Using a software tool of the user's choice, relevant data can be saved locally and submitted electronically back to the requester. The data structure is based on an underlying Unified Modeling Language (UML) model, which in turn is represented by an XML schema which is used to validate the XML data files. The schema and model are included in Figure 4-1 and Appendix E.

End product producers and customers throughout the supply chain are requesting that suppliers provide material declarations so that the recipient is aware of the presence and amount of certain chemicals in the products it procures. This standard defines the creation of a document or electronic record that will serve as a standard way for reporting and collecting this type of data.

## Acknowledgment

Any document involving a complex technology draws material from a vast number of sources. While the principal members of the Materials Declaration Task Group (2-18b) of the Supplier Declaration Subcommittee (2-18) are shown below, it is not possible to include all of those who assisted in the evolution of this standard. To each of them, the members of the IPC extend their gratitude.

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