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Material Declaration for Packaging of Electrical and Electronic Products

电子电气产品包装物的材料声明

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by and shall be under the jurisdiction of the National Technical Committee 297 on Environmental Standardization for Electrical and Electronic Products and Systems of Standardization Administration of China (SAC/TC 297).

The drafting organizations: Shenzhen Academy of Metrology & Quality Inspection, China Quality Certification Center, Mechanical and Electrical Products and Vehicles Testing Center of Jiangsu Entry-Exit Inspection and Quarantine Bureau, Huawei Technologies Co., Ltd. and Guangdong Shengyi Technology Co., Ltd..

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Material Declaration for Packaging of Electrical and Electronic Products

1 Scope

This Standard specifies the terms and definitions, requirements, data format and data exchange of material declaration for packaging of electrical and electronic products.

This Standard applies to the production, circulation, use, recycle and disposal of packaging of electrical and electronic products. This Standard can also be referred to for material declaration for packaging of other products.

This Standard does not apply to electrical and electronic products themselves.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced document (including any amendments) applies to this Standard.

GB/T 4122.1 Packaging Terms – Part 1: Basic

GB/T 18793 Information Technology – Extensible Markup Language (XML) 1.0

3 Terms and Definitions

For the purpose of this document, the following terms and definitions apply.

3.1 Packaging of electrical and electronic products

A general term of containers, materials and accessories adopted in accordance with certain techniques, in order to protect electrical and electronic products, facilitate storage and transportation and promote sales, during the process of circulation.

Note: If an item is a complex with an electrical and electronic product, it is necessary to contain, support or protect it throughout the life of the electrical and electronic product which is intended to be used, consumed or disposed of as a whole, so the item is not considered to be packaging.

3.2 Primary packaging

The packaging constituting an individual sales unit and delivered to the consumers.

3.3 Secondary packaging

substance/ substance group in materials to which it belongs; when the reporting threshold specifies a content in packaging, it shall provide the percentage of a substance/ substance group in packaging to which it belongs.

- d) It shall provide relevant information required by the data exchange for material declaration. See Annex A for the data format for material declaration for packaging;
- e) The name of a substance/ substance group of an applicable compulsory standard shall be consistent with those of relevant laws and regulations. The name of a substance/ substance group of applicable negotiation rules can be in accordance with the international common names (e.g. IUPAC nomenclature). It is preferred to add a CAS registration number for identification;

Note 1: IUPAC nomenclature: A compound shall be named in accordance with the naming rules recommended by IUPAC Organic (or Inorganic) Chemistry. IUPAC is the English abbreviations of the International Union of Pure and Applied Chemistry.

Note 2: CAS registration number (also known as CAS number): a unified digital identification designated by the Chemical Abstracts Service under the American Chemical Society.

- f) The content of a substance/ substance group shall be expressed in accordance with the International System of Units (SI).

5 Data Format and Data Exchange

5.1 General rules

The data of material declaration for packaging shall specifies its specific exchange formats, exchange modes and exchange requirements.

5.2 Data format

The data of material declaration for packaging shall be defined with the XML language and the W3C¹⁾ XML model, in order to meet the specifications of GB/T 18793. The XML model defines the data elements (data types and limits) and structures (data relationship) of a material declaration data file.

The framework of data declaration established by this Standard includes compulsory data fields (required) and selective data fields (optional). The optional data fields can be increased as required by the requesters. See Annex B for the example of material declaration for packaging.

5.3 Data exchange

The modes and requirements of data exchange include:

¹⁾ W3C of the World Wide Web Consortium is a suitable example of products sold on the market.

		mode)	
	Expected completion date	Optional	Propose expected completion date of declaration
	Actual completion date	Required	Declaration completion date
	Field lock	Optional	A sign defined by declaration requester and used to lock and not allow declaration supplier to change information
	Accessory	Optional	Accessory attached to declaration
Product information (optional for the type in material declaration for packaging)	Product name	Required	Name of subject products of packaging
	Unique identifier	Required	Corresponding unique identifier of products
	Manufacturing place	Optional	Product manufacturing place
	Mass	Optional	Total mass of products
	Measure unit	Optional	Measure unit of mass of products
	Annotation	Optional	Annotation field for any additional information
Packaging information (included in each material declaration of packaging)	Name of packaging	Required	Name of packaging supplied by person making declaration
	Material of packaging	Optional	Type of material of packaging supplied by person making declaration
	Unique identifier	Required	Corresponding unique identifier of packaging, e.g. number of packaging manufacturer plus product code
	Version	Optional	Version of packaging
	Packaging grade	Required	Grade of packaging based on applications of packaging
	Mass	Required	Mass of packaging
	Measure unit	Required	Measure unit of mass of packaging
	Mass percentage	Optional	Mass percentage of packaging in whole products
	Unit quantity	Required	Quantity of the same packaging (when packaging includes multiple packagings of the same type, it is allowed to make

compulsory reporting requirements, the type shall be declared)			declared, the name shall be corresponding to relevant laws and regulations.
	Unique identifier	Optional	Unique identifier which describes the substance group
	Mass	As appropriate (it is required to declare mass or mass percentage)	Mass of substance/ substance group
	Measure unit	As appropriate (it is required if mass is required expressly to be declared)	Measure unit of mass of substance/ substance group
	Mass percentage	As appropriate (it is required to declare mass or mass percentage)	Mass percentage of substance/ substance group defined in declaration request
	Mass percentage of material	As appropriate (it is required if reporting threshold is mass percentage of material)	Concentration of substance/ substance group in a homogeneous material, expressed in percentage
	Reporting threshold	Optional	Threshold level specified by laws and regulations or other specifications
	Above threshold	Required	Yes/ no; indicate that substance/ substance group contained in products is above the reporting threshold
	Substance exemption	As appropriate (it is required if there is any exemption regarding reporting threshold)	Any exempted substance list applicable to the substance/ substance group in specific materials
	Annotation	Optional	Annotation fields for any additional information
	Use description	Optional	If substance/ substance group is used in packaging, then the field is used to describe the location of use of substance/

Table B.3 Additional Optional Information – Product Information

Type of product information	Specific information
Name of product	Sphygmomanometer
Unique identifier	OX-832
Manufacturing place	Shenzhen
Mass	467
Measure unit	G
Annotation	-

Table B.4 Additional Optional Information – Packaging Information

Type of packaging information	Specific information
Name of packaging	Bag
Material of packaging	PET and sponge
Unique identifier	DZ01
Packaging grade	1
Mass	26.3
Measure unit	G
Mass percentage	5.6%
Unit quantity	1
Annotation	-

Table B.5 Additional Optional Information – Material/ Substance Group Information

Packaging	Material				Substance					
	Name	Unique identifier	Mass percentage	Material group name	Name	Unique identifier	Mass percentage	Material mass percentage	Reporting threshold	Above threshold level
Bag	PET plastic	PET	91%	Thermoplastic plastic	Polyethylene terephthalate	25038-59-9	19.8%	21.8%	No	No
					Polypropylene	9003-07-0	71.2%	78.2%	No	No
	Pink sponge	Sponge	9%	Other organic materials	Hexavalent chromium	18540-29-9	0.02%	0.2%	0.1%	Yes
					Polyether glycol	9003-11-6	5.4%	60%	No	No
					Toluene diisocyanate	584-84-9	3.1%	34%	No	No
					Silicone oil	63148-62-9	0.30%	3.3%	No	No

Bibliography

- [1] GB/T 23690-2009 Procedure for the Declaration of Materials in Products of the
Electrotechnical and Electronic Industry
- [2] GB/Z 26668-2011 Material Declaration of Electronic and Electrical Products
- [3] IEC 62474:2012 Material Declaration for Products of and for the
Electrotechnical Industry
- [4] JIG-201 Material Composition Declaration for Packaging of Electrotechnical
Products

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