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People's Republic of China Electronic Industry Standard

SJ/T11364—2006

Marking for Control of Pollution Caused by Electronic Information Products

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Preface

Appendices A and B of this standard are appendices for informational purposes.
This Standard shall be subject to the jurisdiction of the China Electronic Standardization Institute.
The unit that drew up this standard: China Electronic Standardization Institute.
The units that participated in drafting of this standard: Please see Appendix A.
Drafters for this standard: Meng Yang and Shuoxiang Han.

Introduction

Due to the demand for technologies and product features, some electronic information product materials contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl, polybrominated diphenyl ether, etc. Such substances and elements are toxic or hazardous. In order to prevent the aforementioned substances from resulting in serious human and environmental effects during use and disassembly of discarded [electronic information products], to promote electronic information product compliance with environmental protection requirements, and to further standardize electronic information product marking, this standard was formulated according to stipulations set forth in the "*Management Methods for the Control of Pollution from Electronic Information Products*" (Ministry of Information Industry, Order No. 39) and by referencing related international standards and industrial practices.

Marking for Control of Pollution Caused by Electronic Information Products

1. Scope

This standard specifies names and contents of the toxic or hazardous substances or elements contained in electronic information products, the environmental protection use period, recyclability and marking of names of packaging materials.

This standard applies to the electronic information products sold in the People's Republic of China.

2. Normative Files

The clauses included in the following documents and cited in this standard shall become clauses of this standard. For all dated standards, none of their [subsequent] modifications (excluding content corrections) or revisions applies to this standard. However, each party to agreements entered into in accordance with this standard is encouraged to study the possibility of using the latest editions of the following documents. For all undated documents that are cited in this standard, their latest versions apply to this standard.

GB 18455-2001 Packaging Recycling Mark.
SJ/T11363-2006 Requirements for Concentration Limits for Hazardous Substances in Electronic Information Products.

3. Terms and Definitions

The following terms and definitions are applicable to this standard.

3.1 Electronic Information Products (EIP)

These refer to the products and their accessories that are manufactured by utilizing electronic information technologies including electronic radar products, electronic communication products, broadcast television products, computer products, household appliances, electronic surveying instruments, special-purpose electronic products, electronic components, electronic applications, and electronic materials.

3.2 Hazardous Substances

These refer to lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), and polybrominated diphenyl ether (PBDE, exclusive of decabromodiphenyl ether) that are contained in electronic information products.

References to “contained” in this standard mean that the contents of toxic or hazardous substances or elements exceed the limit requirements set forth in SJ/T11363-2006.

3.3 Producer

Producer refers to a natural person or legal person who engages in the production of electronic information products in the People’s Republic of China.

3.4 Importer

Importer refers to a natural person or legal person who imports electronic information products in the People’s Republic of China.

3.5 Environmental Protection Use Period

Refers to the period during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate under normal operating conditions so that the use of such electronic information products will not result in any severe environmental pollution, any bodily injury or damage to any assets.

3.6 Recyclability

Refers to the process of treating discarded products [for re-production] or other uses including energy recovery.

3.7 Packaging Material

This is a collective name for containers, materials and accessories used according to certain technical methods for the convenience of storage, transportation and promotion of sales in order to protect products during their circulation.

4. General Rules

All electronic information products that are sold in the People's Republic of China shall be marked with pollution control logos for electronic information products in accordance with the requirements set forth in this standard. If the sizes or functions of products prevent direct marking on the products, it may be specified in the product instructions.

With respect to the electronic information products that are purchased for manufacturing. Suppliers need not provide the aforementioned marking, but shall supply to the purchaser all necessary information required for marking. Correspondingly, the purchasers [in this case] shall mark the electronic information products they manufacture and the scope of marking shall include that for the electronic information products purchased for manufacturing.

5. Electronic Information Products Pollution Control Logos

5.1 General Rules

Electronic information products shall be marked with pollution control logos in accordance with this standard, and the marking shall be clear, distinguishable, visible, hard to fade and hard to remove.

5.2 Logos

Logos 1 and 2 are demonstrated [below] for marking for control of pollution caused by electronic information products; please refer to Appendix B for definitions [of these logos].

Logo 1

Logo 2

Note: The number in logo 2 is only for demonstration. When in actual use, it shall be replaced with the corresponding environmental protection use period of the product.

5.3 Colors

The suggested color for the marking in logo 1 is green (C: 85, M: 31, Y: 83, K: 20), and the suggested color for the marking in logo 2 is orange (C: 0, M: 75, Y: 99, K: 0). If the marking does not look sufficiently clear because the color of the electronic information product is close to the suggested color, any other prominent color may be used, and the marking molded on the products can be the same color as that of the products.

5.4. Specifications

5.4.1 Specifications for Logos

The proportion for the lines in logo 1 and logo 2 is shown in Figures 3 and 4 (Number of Grids is 100×100). The font for the number in logo 2 is Impact, and the ratio of its height to inner and outer diameters of the circle is 5:8:12.

Note: Font "Impact" can be obtained from Office or Word software.

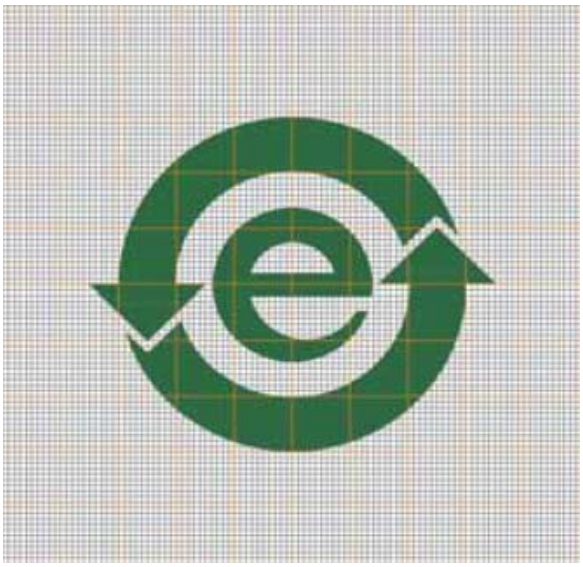
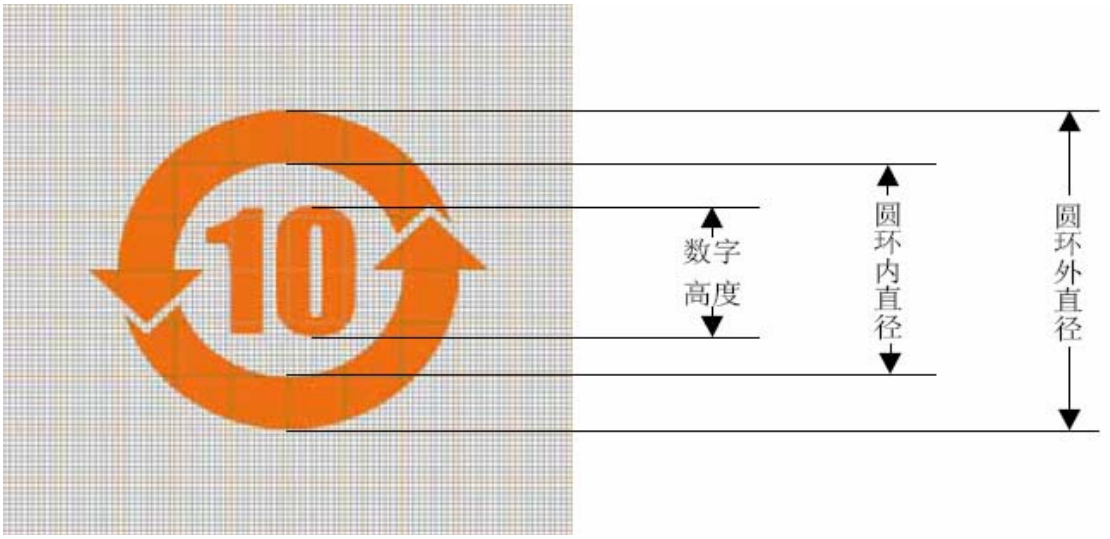


Figure 3



[Chinese characters in Figure translated as follows, left to right: "height of numbers," "inner diameter," "external diameter"]
Figure 4

5.4.2 Marking Specifications

Producers or importers shall choose suitable specifications for logos according to the sizes of the electronic information products and components. However, [these] shall not be smaller than 5mm×5mm.

5.5 Marking Requirements

5.5.1 When logo 1 is used for marking, the pollution control logos for electronic information products may be marked directly on the products through molding, paining, pasting or printing, or be specified in the product instructions.

5.5.2 When logo 2 is used for marking, for the electronic information products with a regular shape and a maximum surface area equal to or larger than $5\times10^3 mm^2$, the pollution control logos for electronic information products shall be marked directly on the products through molding, paining, pasting or printing; for the electronic information products with an irregular shape or a maximum surface area less than $5\times10^3 mm^2$, the pollution control logos may not be marked directly on the products, but must be specified in the product instructions.

Note: Irregularly shaped products may be those with a large surface area but which are very narrow and long, such as a cable.

5.5.3 If the pollution control logos for electronic products are to be marked on the products, they normally shall be marked at a prominent location on the electronic information products, such as the front of the product, side or back where function keys are located. If restricted by functions and appearances so that it is not possible to mark the pollution control logos in prominent locations, they shall be located at other visible places easily detected by consumers.

6. Marking for Toxic or Hazardous Materials or Elements

6.1 General Rules

Electronic information products shall be marked in accordance with this standard to indicate whether they contain any toxic or hazardous substances or elements. If there are no toxic or hazardous substances or elements contained in the products, logo 1 shall be chosen. If products contain any toxic or hazardous substances or elements, logo 2 shall be chosen. In addition, names and contents of toxic or hazardous substances shall be specified in the product instructions in accordance with the requirements stipulated in Clause 6.2.

6.2 Names and Contents of Toxic or Hazardous Materials

6.2.1 Marking Styles

Please refer to Table 1 for the names and contents of the toxic or hazardous substances or elements contained in electronic information products.

Table 1 Marking Styles for Names and Contents of Toxic or Hazardous Substances or Elements

Part Name	Toxic or hazardous Substances and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006. X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006. (Enterprises may further provide in this box technical explanation for marking “X” based on their actual conditions.)						

6.2.2 Marking Requirements

Producers and importers who manufacture or import electronic information products that contain toxic or hazardous substances or element shall specify in product instructions the names and contents of toxic or hazardous substances or element and mark them on the parts where they are contained in by following the styles specified in Clause 6.2.1 of this standard. The first row in Table 1 is the head. The first column is the part name. Other columns are contents of the toxic or hazardous substances or elements. The last row shall be used entirely for meanings of the logos and explanation for other related matters.

If certain toxic or hazardous substances or elements do not exist in this part, namely this toxic or hazardous substance or element contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006, then mark “O” for the corresponding column. If certain toxic or hazardous substance or element is contained in this part, namely this toxic or hazardous substance or element contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006, then mark “X” for the corresponding column.

The height of Chinese characters and logos used in the marking shall not be smaller than 1.8 mm.

7. Environmental Protection Use Period Marking

The environmental protection use periods shall be marked on of the electronic information products that contain toxic or hazardous substances or elements according to Logo 2. In addition, detailed explanations for the use conditions during the environmental protection use periods and special markings for the parts shall be specified in the product instructions. In the above case, the number in the middle of logo shall be replaced with the actual environmental protection use period for this product with the unit of year.

The date of manufacture for the electronic information product is the beginning of environmental protection use period.

The environmental protection use period will be stipulated by manufacturers.

8. Recyclability Marking

The products [affixed with] pollution control logos for electronic information products are [assumed to be] recyclable. They should not be thrown away casually.

9. Names and Marking of Packaging Materials

Electronic Information products producers or importers shall follow GB 18455-2001 to label the codes for packaging materials on the packaging of the products they manufacture or import. If the maximum surface area of the packaging is smaller than $5x10^3 mm^2$, it may not be marked directly on the packages, but rather shall be explained in the product instructions.

Appendix A

(For Informational Purposes)

List of Units Participating in the Drafting of This Standard

(Listed according to the sequence in the pinyin [system] of the first letter of each name, and not intended to represent ranking)

Agilent Science and Technology Limited
Ericsson (China) Co., Ltd.
Epson (China) Co., Ltd.
Pony Lab for Physical and Chemical Analysis
Beijing Capitel Nokia Mobile Technology Co., Ltd.
AMD Semiconductor (China) Co., Ltd.
Dell (China) Co., Ltd.
Toto (China) Co., Ltd.
Founder Technology Group Corp.
Philips (China) Investment Co., Ltd.
International Business Machines (IBM) China Limited
Haier Group Technology Research and Development Center
Huawei Technologies Co., Ltd.
Huizhou TCL Computer Technology Co., Ltd.
Canon (China) Co., Ltd.
Jiangsu Electronic Products Supervision and Testing Institute
Langchao Group Co., Ltd.
Lucent Technologies (China) Co., Ltd.
Lenovo (Beijing) Co., Ltd.
Motorola (China) Electronics Co., Ltd.
Ningbo Bird Co., Ltd.
Qingdao Hisense Group
Tsinghua University School of Materials Science and Engineering
NEC (China) Co., Ltd.
Hitachi (China) Co., Ltd. Shanghai Branch
Alcatel Shanghai Bell Co., Ltd.
SVA (Group) Co., Ltd.
Shenzhen C.K.D. Electronic High-Tech Ltd.
Panasonic Corporation of China
Suzhou UL China Certification and Inspection Co., Ltd.
Suzhou Electronic Product Testing Institute Co., Ltd.
Sony (China) Co., Ltd.
Tianjin Electronics Institute

Xiamen Overseas Chinese Electronic Co., Ltd.
Sharp Office Equipment (Changshu) Co., Ltd.
Hong Kong Lexmark International (China) Co., Ltd.
MII Telecommunications Research Institute
MII Electronics No. 5 Research Institute
MII Quality Supervision and Testing Center for Special-Purpose Materials
Brother (China) Ltd.
Panda Electronics Group Co., Ltd.
Albemarle (Shanghai) Co., Ltd.
Intel (China) Co., Ltd.
China Quality Management Association for Electronics Industry
China Hewlett-Packard Co., Ltd.
China Household Electrical Appliances Association Discarded Electronic and Electric Products Recycling Branch
China Household Electrical Appliance Research Institute
ZTE Corporation

Appendix B

(For Informational Purposes)

Definitions of Pollution Control Logos for Electronic Information Products

Pollution Control Logos for Electronic Information Products are the only valid logos for enterprises to declare that their products conform to the marking requirements set forth in the Management Methods for Control of Pollution from Electronic Information Products. The [logos] indicate whether the electronic information products contain any toxic or hazardous substances or elements, the environmental protection use period of the electronic information products, and the recyclability of the electronic information products.

Logo 1 is generally green, demonstrating the attribute of environmental protection, namely that the products do not contain any toxic or hazardous substances or elements. The “e” in the artistic style at the middle of the logo stands for electrical, electronic and environmental, signifying green and environmental electronic information products; the outer, curved arrows form a circle, demonstrating that the electronic information products can be recycled. The entire logo indicates that this electronic information product does not contain any toxic or hazardous substances or elements, and is green and environmental. [The logo also signifies that the product] can be recycled after being discarded, and should not be casually discarded.

Logo 2 is normally orange, making prominent the attribute of caution, [specifically meaning] that the products contain certain toxic or hazardous substances or elements. The replaceable number in the middle of the logo indicates the environmental protection use period for the electronic information product. The [logo's] outer [border] is also a circle formed by [curved] arrows, demonstrating that the electronic information product can be recycled. The entire logo means that this electronic information product contains certain toxic or hazardous substances or elements, and can be used safely during its environmental protection use period. [The logo also signifies that the product] should be recycled immediately after its environmental protection use period has expired.

Bibliography

[1] Management Methods for Control of Pollution from Electronic Information Products, Ministry of Information Industry, February 28, 2006, Order No. 39
[2] Product Marking and Labeling Rules, Bureau of Technical Supervision, November 7, 1997, Jian Fa (1997) No. 172 by the Bureau of Technical Supervision.
[3] Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment by the EU.
[4] Commission Decision of 18 August 2005,amending Directive 2002/95/EC of the European Parliament and of the council for the purpose of establishing the maximum concentration values for certain hazardous substance in electrical and electronic equipment (2005/618/EC) by the EU.
[5] GB5296.2-1999 Instructions for Consumers, Household and Similar Electronic Appliances Operating Instructions
[6] GB 18455-2001 Packaging Recycling Mark
[7] GB/T 16288-1996 Mark for Plastic Products Recycling