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OF THE PEOPLE'S REPUBLIC OF CHINA

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SJ/T 11364-2024

Replacing SJ/T 11364-2014

**Labeling requirements for restricted use of hazardous
substances in electrical and electronic products**

电器电子产品有害物质限制使用标识要求

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Table of Contents

Foreword.....	3
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 General.....	7
5 Labeling of information on hazardous substances in products.....	7
5.1 Labeling	7
5.2 Names and information table of hazardous substances in electrical and electronic products.....	8
5.3 Other suggestive information.....	10
6 Labeling requirements.....	10
7 Data preservation.....	11
Appendix A (Normative) Hazardous substances.....	12
Appendix B (Normative) Specifications and interpretations of the labeling on restricted use for electrical and electronic products.....	13
Appendix C (Informative) List of participating drafting organizations of this document	15
References	18

Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces SJ/T 11364-2014 "Marking for the restriction of the use of hazardous substances in electrical and electronic product" and the 2017 No.1 Amendment. Compared with SJ/T 11364-2014, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) CHANGE the standard name from "Marking for the restriction of the use of hazardous substances in electrical and electronic product" in SJ/T 11364-2014 to "Labeling requirements for restricted use of hazardous substances in electrical and electronic products"; ADJUST the product scope of application to "Electrical and electronic products", to be consistent with the product scope of application of China's laws and regulations on the restriction of hazardous substances in electrical and electronic products;
- b) ADD the terms "electrical and electronic products" and "labeling"; DELETE the terms "recycling" and "logistics"; MODIFY the terms "hazardous substances" and "environmentally friendly use period";
- c) DELETE the identification method of the product production date;
- d) ADD the identification method and requirements using QR code (6.4);
- e) ADD the requirement to support the use of web pages as identification carriers (6.6);
- f) ADD the requirements for the preservation of supporting documents for the names and information tables of hazardous substances in electrical and electronic products (7);
- g) ADD four new types of phthalates, to the categories of hazardous substances in electrical and electronic products (Appendix A).

Please note that some of the contents of this document may involve patents. The issuing agency of this document does not assume the responsibility for identifying patents.

This document was proposed by the Department of Energy Conservation and Comprehensive Utilization of the Ministry of Industry and Information Technology.

This document shall be under the jurisdiction of the Working Group on Pollution Prevention and Control of Electrical and Electronic Products of the Ministry of Industry and Information Technology.

Labeling requirements for restricted use of hazardous substances in electrical and electronic products

1 Scope

This document specifies the labeling method and requirements for the information on hazardous substances contained in electrical and electronic products.

This document applies to electrical and electronic products sold within the territory of the People's Republic of China. It can also be used as a reference for the logistics process of electrical and electronic products.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in the text. Among them, for dated references, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB/T 26572 Requirements of concentration limits for certain restricted substances in electrical and electronic products

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Electrical and electronic products

Equipment and supporting products that rely on current or electromagnetic fields to work or are intended to generate, transmit and measure current and electromagnetic fields, with a rated working voltage of no more than 1500 V for direct current and no more than 1000 V for alternating current.

Note: Equipment involved in the production, transmission, distribution of electric energy is excluded.

3.2

Hazardous substance

Substances contained in electrical and electronic products that are harmful to humans, animals, plants and the environment.

[Source: SJ/T 11468-2014, 2.2.3, with modifications]

3.3

Environment-friendly use period (EFUP)

The number of years during which the hazardous substances contained in electrical and electronic products will not leak or mutate, and will not cause serious pollution to the environment or serious damage to people and property, when the user uses them normally according to the product instructions.

The starting date of the environmental-friendly use period of electrical and electronic products is the production date of the product.

3.4

Labeling

The process of labeling the information on the hazardous substances contained in electrical and electronic products.

4 General

The manufacturer or importer of electrical and electronic products shall label the information on the hazardous substances contained in the products, in accordance with the requirements of this document.

Products purchased for production support may not be labeled with the restricted use of hazardous substances in electrical and electronic products; however, the supplier shall provide all the information required for the labeling according to the purchaser's requirements.

5 Labeling of information on hazardous substances in products

5.1 Labeling

If the content of hazardous substances in the product meets the requirements of GB/T 26572, the manufacturer or importer of electrical and electronic products shall label it according to Figure 1. If the content of hazardous substances in the product does not meet the requirements of GB/T 26572, it shall be labeled according to Figure 2,

and electronic products may swap the rows and columns of the names of hazardous substances and components in the information table.

5.3 Other suggestive information

When applicable, the manufacturer or importer of electrical and electronic products should indicate in the product description the suggestive information to avoid harmful substances in the product from causing harm to the environment and human health, based on the characteristics of the product or product components and the intended design working conditions or occasions.

6 Labeling requirements

6.1 Under normal circumstances, the restriction of hazardous substances in electrical and electronic products shall be directly marked on the visible part of the product by molding, laser engraving, spraying, pasting, printing, etc., or by the labeling method of 6.3.

If the electrical and electronic products themselves are only used as components, parts, elements inside other electrical and electronic products, such as display components, circuit boards, resistors, etc., meanwhile they are put on the market separately and sold to consumers or end users, the restriction of hazardous substances in electrical and electronic products may not be directly marked on the surface of the product, but it shall be indicated in the product description.

6.2 If an electrical and electronic product meets one of the following conditions, the restriction of the use of hazardous substances in electrical and electronic products may not be directly marked on the surface of the product, but it shall be noted in the product description:

- a) The maximum surface area that can be marked is less than 50 cm²;
- b) The shape is irregular, such as a cable with a large surface area but particularly thin and long;
- c) It cannot be directly marked on the surface of the product due to surface material or function.

6.3 If the product has an image display function, the restriction of the use of hazardous substances in electrical and electronic products can be built into the product system software in digital form and shall meet the following requirements:

- a) When the product is running, the user can view it through the user interface;
- b) The digital information shall be set as read-only data during exit-factory.

6.4 The manufacturer or importer of electrical and electronic products shall mark the information table in 5.2 in the product description, or use a QR code to allow users to scan and view the content of 5.2.

If a QR code is used, then:

- a) The content of 5.2 shall be displayed intuitively after the QR code is identified;
- b) The QR code shall be accompanied by a text prompt for viewing the information about hazardous substances contained in the product;
- c) The identification carrier of the QR code includes the product body, paper instructions, instruction CD or packaging;
- d) 5.1 and 5.3 can also be included in the QR code, but the QR code cannot replace the mark of 5.1;
- e) The manufacturer or importer of electrical and electronic products can integrate the QR code with the QR code related to the product description.

6.5 The manufacturer or importer of electrical and electronic products shall ensure that the marks and text in 5.1 ~ 5.3 are clear and easy to distinguish, meanwhile they are not easy to fade or remove.

The specifications for the hazardous substance restriction mark for electrical and electronic products are shown in Appendix B.

The Chinese characters in the information table shall be in simplified Chinese.

6.6 The carrier of the product description in this document can be a paper manual, a CD (CD/DVD), packaging, system built-in software, or company website.

Any labeling carrier shall clearly indicate the corresponding relationship between the product and its hazardous substance mark and information table. For the system built-in software or web page as the labeling carrier, the manufacturer or importer of the electrical and electronic products shall indicate the viewing method of 5.1 ~ 5.3 in the product paper instructions/instruction CD or on the packaging.

7 Data preservation

The manufacturer or importer of electrical and electronic products shall save the technical support documents related to the information table, so that they can be provided when needed. The preservation period of the documents can be based on the requirements of the relevant legal normative documents on the restriction of the use of hazardous substances in electrical and electronic products.

B.1.2 The recommended colors of the restricted use of hazardous substances in electrical and electronic products are:

- a) Mark I: Green (C: 85, M: 30, Y: 85, K: 20);
- b) Mark II: Orange (C: 0, M: 75, Y: 100, K: 0).

The manufacturers or importers of electrical and electronic products may also choose other colors according to the actual situation of the products, but green shall not be used for mark II.

B.1.3 The manufacturer or importer of electrical and electronic products shall enlarge or reduce the hazardous substance restriction mark of electrical and electronic products in proportion to the specifications of this Appendix; its minimum size shall not be less than 5 mm × 5 mm.

B.2 Interpretation of the mark

The connotation of the hazardous substance restriction mark of electrical and electronic products includes whether the electrical and electronic products contain hazardous substances, the environment-friendly use period of the electrical and electronic products, whether the electrical and electronic products can be recycled. The lines with arrows in the outer circle of the figure form a circular circle, indicating that the electrical and electronic products can be recycled.

Figure B.1 is generally green, indicating that the content of hazardous substances in the product meets the national hazardous substance limit requirements and is a green and environmentally friendly product. In the middle of the figure is an artistic "e", which represents electrical and electronic products (electrical and electronic product) and environmental protection (environmental), symbolizing green and environmentally friendly electrical and electronic products.

Figure B.2 is generally orange, indicating that the content of hazardous substances in the product does not meet the national hazardous substance limit requirements, but it can be used safely within the environment-friendly use period; in the middle of the figure is a replaceable number, which clearly indicates the environment-friendly use period of the electrical and electronic products.

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