



SESEC V Translation

Translation of the draft *Requirements for the Restricted Use of Hazardous Substances in Electrical and Electronic Products*

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Seconded European Standardization Expert in China
(SESEC)

INTRODUCTION:

On 19 November 2024, the Ministry of Industry and Information Technology (MIIT) of China released the draft *Requirements for the Restricted Use of Hazardous Substances in Electrical and Electronic Products* for public comment. This new standard is intended to replace the currently effective China RoHS standard, GB/T 26572-2011, along with its amendments. This standard will become compulsory. Once finalized, it will establish updated admission conditions for electrical and electronic products entering the Chinese market. **The deadline for submitting comments on this draft is 18 January 2025.**

DISCLAIMER:

This English version is an unofficial translation of the original Chinese document, produced by SESEC for reference purposes only. In the event of any discrepancies between the English and Chinese versions, the Chinese version shall prevail. SESEC accepts no responsibility or liability for any errors, inaccuracies, or misunderstandings arising from this translation.

Requirements for restricted use of hazardous substances in electrical and electronic products

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Foreword

This document is 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 is a revision of GB/T 26572-2011 and its amendment. The main revisions are as follows:

- a) Added the 3 terms and definitions: "environment-friendly use period", "catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products" and "exception" (see 3.6, 3.7 and 3.8);
- b) Added the classification management requirements for the restricted use of hazardous substances in electrical and electronic products (see Clause 4);
- c) Added the requirements for marking of the restricted use of hazardous substances in electrical and electronic products (see Clause 6);
- d) Added requirements related to the declaration of conformity for the restricted use of hazardous substances in electrical and electronic products (see Clause 7);
- e) Added requirements related to inspection rules (see Clause 8);

This document will replace GB/T 26572-2011 and its amendment as of the date of implementation.

This document is proposed by and under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China.

Introduction

In order to implement the relevant requirements of the *Administrative Measures for Restricted Use of Hazardous Substances in Electrical and Electronic Products*, control and reduce the environmental pollution and personal health hazards caused by scrapped electrical and electronic products, promote clean production and comprehensive utilization of resources in the electrical and electronic industry, encourage green consumption, protect environment and human health, enhance the awareness and level of green production in electrical and electronic enterprises, and promote the high-quality development of the industry, this standard is formulated by reference to relevant international standards, regulatory requirements and industry practices.

Requirements for restricted use of hazardous substances in electrical and electronic products

1 Scope

This document specifies the limit requirements, marking requirements and conformity assessment requirements for hazardous substances in electrical and electronic products.

This document is applicable to electrical and electronic products produced, sold and imported in the People's Republic of China.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 39560 (all parts) Determination of certain substances in electrical and electronic products (IEC 62321, IDT)

SJ/T 11468-2014 Restriction of hazardous substances in electrical and electronic products - Terminology

SJ/Z 11388 General guidelines of environment-friendly use period of electronic information products

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 39560.1 and SJ/T 11468-2014 and the following terms and definitions apply.

3.1 electrical and electronic product

EEP

Equipment and associated products that operate using electric current or electromagnetic fields, or are designed for the generation, transmission, and measurement of electric current and electromagnetic fields, with a rated operating voltage not exceeding 1500 volts DC or 1000 volts AC. Power generation, transmission and distribution equipment is excluded.

3.2 hazardous substance

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

Note: The types of hazardous substances restricted in this document are listed in Annex A, among which "contained" means that the contents of hazardous substances restricted in the product exceeded the requirements specified in 5.1 herein. [Source: SJ/T 11468-2014, 2.2.3, modified]

3.3 homogeneous materials

Material composed of one or multiple kinds of substances, with various parts being uniform and consistent. [Source: SJ/T 11468-2014, 2.5.6]

3.4 components

Structural units having certain functions or purposes in electrical and electronic products.

3.5 test units

The samples which can be directly submitted for testing, without need for further disassembly.

3.6 environment-friendly use period

EFUP

Under normal use in accordance with the product manual, the time during which the hazardous substances contained in the electrical and electronic products will not leak or mutate, and will not cause serious pollution to the environment or cause serious harm to people's health or property. [Source: SJ/T 11468-2014, 2.6.1, modified]

3.7 catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products

A catalogue intended for the management of restricted use of hazardous substances in electrical and electronic products, including the categories of electrical and electronic products, the types of hazardous substances restricted for use, the time limit for restricted use and the exception requirements.

Note: This catalogue is generally issued or updated by the competent authorities for the restricted use of hazardous substances in electrical and electronic products, and the catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products (first batch) can be found in Reference [1].

3.8 exception

Due to technical or economic limitations, certain hazardous substances contained in electrical and electronic products may, within a specific period, not be subject to limit requirements or may have their limit requirements relaxed under applicable laws and regulations.

[Source: SJ/T 11468-2014, 2.2.10, modified]

Note: The list of exceptions is generally issued or updated by the competent authorities for the restricted use of hazardous substances in electrical and electronic products, and the list of exceptions used in conjunction with the catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products (first batch) can be found in Reference [1].

4 Classification of electrical and electronic products and requirements for the restricted use of hazardous substances

The classification of electrical and electronic products and the requirements for the restricted use of hazardous substances are shown in Table 1.

Table 1 Classification of electrical and electronic products and requirements for the restricted use of hazardous substances

No.	Classification of electrical and electronic products	Description of classification of electrical and electronic products	Requirements for the restricted use of hazardous substances
1	Class I	Products included in the "catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products"	The requirements for Clause 5, Clause 6 and Clause 7 shall be met
2	Class II	Products not included in the "catalogue for compliance management of restricted use of hazardous substances in electrical and electronic products"	The requirements for Clause 6 shall be met

Note: In accordance with the relevant requirements of the *Administrative Measures for Restricted Use of Hazardous Substances in Electrical and Electronic Products*, Class II electrical and electronic products are encouraged to meet the requirements of concentration limits in Clause 5.

5 Limit Requirements

5.1 Limit requirements

The content of lead, mercury, hexavalent chromium, polybrominated biphenyl, polybrominated diphenyl ether, dibutyl phthalate, diisobutyl phthalate, butyl benzyl phthalate and bis(2-ethylhexyl) phthalate in all homogeneous materials constituting electrical and electronic products shall not exceed 0.1% (mass fraction) and the content of cadmium shall not exceed 0.01% (mass fraction).

5.2 Test requirements and rules for the determination of conformity

5.2.1 Classification of test units

In order to determine whether electrical and electronic products comply with the requirements of 5.1 of this document, electrical and electronic products should be first disassembled into test units in accordance with the essential principle of splitting into homogeneous materials as much as possible according to the process and requirements of GB/T 39560.2, and classified in accordance with Table 2. In case of coincidence or contradiction between classifications, it is necessary to make classification in the sequence of EEP-A/EEP-B/EEP-C; Namely, if any product can be classified according to EEP-A, it should not be classified as EEP-B or EEP-C.

Table 2. Classification of test units

Categories of test units	Definition of categories of test units
EEP-A	Homogeneous materials constituting electrical and electronic products
EEP-B	Colorless or colored anti-corrosion coating on the components of electrical and electronic products
EEP-C	Small components and parts or materials which cannot be further disassembled under the existing conditions in the electrical and electronic product ^a

^a: Units with a volume less than or equal to 4 mm³.

5.2.2 Test requirements for the content of hazardous substances

The determination of hazardous substances in each test unit of the product shall be carried out in accordance with the corresponding methods specified in GB/T 39560 (all parts).

5.2.3 Rules for the determination of conformity of test results

If the content of hazardous substances in each test unit separated from an electrical and electronic product complies with the requirements of Table 3, it shall be determined that the electrical and electronic product complies with the requirements of 5.1. If the content of hazardous substances in any test unit does not comply with the requirements of Table 3, it shall be determined that the electrical and electronic product does not comply with the requirements of 5.1.

Table 3. Rules for the determination of conformity

Categories of test units	Rules for the determination of conformity
EEP-A	Comply with the limit ^b specified in 5.1
EEP-B ^a	
EEP-C	
^a The determination result of hexavalent chromium [Cr(VI)] is "hexavalent chromium [Cr(VI)] negative" according to the method specified in GB/T 39560.701.	
^b The determination of the test unit as an exception shall be carried out according to the corresponding requirements in the issued list of exceptions.	

6 Labelling requirements

6.1 General

Producers or importers of electrical and electronic products shall label information about hazardous substances contained in the products in accordance with the requirements of this document.

Products purchased for production purposes are not required to carry hazardous substance restriction labels for electrical and electronic products. However, the supplier must provide all the information necessary for labeling as requested by the purchaser.

6.2 Marking requirements

Producers or importers of electrical and electronic products shall mark the products according to the presence of hazardous substances, using either Figure 1 or Figure 2, as appropriate. The relevant requirements are as follows.

- a) If the content of hazardous substances in the product meets the requirements of 5.1 of this document, it shall be marked according to Figure 1.
- b) If the content of hazardous substances in the product does not meet the requirements of 5.1 in this document, it shall be marked according to Figure 2, and the name and information of hazardous substances contained in the product shall be provided according to the requirements of 6.3.
- c) If the use of hazardous substances in a material or component of the product is an exception, but at the same time its content does not meet the requirements of 5.1 in this document, it shall be also marked according to the requirements of b).

- d) If the marking is provided according to Figure 2, manufacturers or importers of electrical and electronic products shall determine the environment-friendly use period of the product using the method by reference to SJ/Z11388 or the guidance of relevant industry organizations.

Note: The numbers in Figure 2 are taken for examples only. For application, they shall be replaced with the corresponding environment-friendly use periods of electronic and electrical products.

- e) Manufacturers or importers of electrical and electronic products can also choose other colors according to the actual situation of the product, but mark II shall not be green.
- f) The graphic specifications of mark I and mark II are shown in Annex C. Manufacturers or importers of electrical and electronic products shall scale up or scale down the mark for the restricted use of hazardous substances in electrical and electronic products at the same proportions according to the specification requirements in Annex C, and the minimum size shall not be less than 5 mm × 5 mm.
- g) The definitions and color descriptions of mark I and mark II are shown in Annex D.



Figure 1 Mark I



Figure 2 Mark II

6.3 Name and content information table of hazardous substances in electrical and electronic products

The name and content information table of hazardous substances in electrical and electronic products (referred to as "Information Table") are shown in Table 1, where:

- a) The first row of the Information Table is the header, the first column is the component name of the product, and the other columns shall be filled with the name or abbreviation of each substance one by one according to the hazardous substances and order listed in Annex A. The component division method in the Information Table shall be determined by manufacturers or importers of electrical and electronic products;
- b) If the content of certain hazardous substances in the component meets the requirements of 5.1 in this document, the corresponding content information of the hazardous substance shall be annotated as "o". If the content of certain hazardous substances does not meet the requirements of 5.1 in this document, the corresponding content information of the hazardous substance shall be annotated as "x";
- c) The last row of the Information Table is used for the description of the symbols and other related matters in b);
- d) If the content of hazardous substances in a component meets the requirements of 5.1 in this document, it is unnecessary to include the component in the Information Table;
- e) If the content of hazardous substances in a component does not meet the requirements of 5.1 in this document, the markings of components with the same content information of hazardous substances can be combined, such as plastic structural parts and cables. Otherwise, the markings shall not be combined with other components, and "other" or similar expressions shall not be used in place of the name of such components;

- f) Manufacturers or importers of electrical and electronic products can add supplementary instructions in the Information Table according to the actual situation;

Example 1: Explain the technical reasons for marking "x" in the column.

Example 2: Add remarks in the Information Table to annotate information such as optional accessories.

- g) Due to the limitation of space or layout, manufacturers or importers of electrical and electronic products can swap the rows and columns of the names of hazardous substances and components in the

Information Table;

- h) Where applicable, producers or importers of electrical and electronic products shall include precautionary information in the product instructions, specifying how to avoid hazards to the environment and human health caused by hazardous substances in the product, based on the characteristics of the product or its components and the intended design operating conditions or scenarios.

Table 1 Name and content information table of hazardous substances in electrical and electronic products

Name and content information table of hazardous substances in products

Component name	Hazardous substances			
	Substance 1	Substance 2	...	Substance n
Component 1				
Component 2				
...				
Component n				

Note 1: o indicates that the content of the hazardous substance in all homogeneous materials of the component does not exceed the requirements in the national standard for the restricted use of hazardous substances in electrical and electronic products.
x indicates that the content of the hazardous substance in at least one homogeneous material of the component exceeds the requirements in the national standard for the restricted use of hazardous substances in electrical and electronic products.

Note 2: The components not listed above indicate that the content of hazardous substances does not exceed the requirements in the national standard for the restricted use of hazardous substances in electrical and electronic products.

6.4 Labelling requirements

6.4.1 Under normal circumstances, producers or importers of electrical and electronic products shall directly apply the mark specified in Section 6.2 to a visible part of the product using methods such as molding, laser engraving, spraying, adhesion, or printing. The mark specified in Section 6.2 must be clear, legible, resistant to fading, and difficult to remove. If digital labeling is used, the provisions of Section 6.4.5 shall apply.

6.4.2 If an electrical or electronic product meets any of the following conditions, the hazardous substance restriction symbol for electrical and electronic products is not required to be directly affixed on the product's surface. However, the mark specified in Section 6.2 must be included in the product instructions.

- a) The maximum surface area available for labeling is less than 50 cm²;
- b) The product has an irregular shape, such as cables with a very large surface area but extremely slender dimensions;

- c) The product's surface material or functional characteristics make it unsuitable for direct marking;
- d) The product itself is classified as an electrical or electronic product but is exclusively intended to function as an internal component, part, or element of other electrical or electronic products (e.g., display modules, circuit boards, resistors) and is independently placed on the market for sale to consumers or end-users.

6.4.3 In general, manufacturers or importers of electrical and electronic products shall include the Information Table in 6.3 in the product instructions, and the Chinese characters in the Information Table shall be simplified Chinese. If the labelling is provided in digital format or two-dimensional bar code, it shall be subject to the requirements of 6.4.5 or 6.4.6 respectively.

6.4.4 The carriers of product instructions in this document can be a printed manual, electronic manual, CD/DVD, packaging, built-in system software, or the company website. Any labelling carrier must clearly indicate the correspondence between the product and its hazardous substance marking and information table. For carriers such as built-in system software or webpages, producers or importers of electrical and electronic products must specify in the printed manual, instruction CD/DVD, or packaging how to access the content of Sections 6.2 and 6.3.

6.4.5 If the marks in 6.2 and the Information Table in 6.3 are built into the system software of the product with image display function in digital format, the following requirements shall be met:

- a) Users can view the information through the user interface during the operation of the product;
- b) The marks in 6.2 and the text in the Information Table in 6.3 in digital format shall be clearly visible and cannot be scaled up or down;
- c) Information in digital format must be preset as read-only data at the factory.

6.4.6 If a QR code is used to allow users to access the Information Table specified in 6.3 through scanning, the following requirements shall be met:

- a) The content of 6.3 shall be visually displayed after the QR code is identified;
- b) The QR code shall be accompanied by a text prompt that it provides information about the hazardous substances contained in the product;
- c) The carrier for the QR code may include the product itself, a printed manual, an instruction CD/DVD, or the packaging;
- d) The marks specified in 6.2 may also be incorporate into the QR code, but the QR code cannot replace marks shown in Figure 1 or Figure 2 from section 6.2, and the hazardous substance restriction mark for electrical and electronic products must still be labeled in accordance with the requirements of Sections 6.4.1 to 6.4.5.;
- e) Manufacturers or importers of electrical and electronic products shall ensure that the data in the QR code is traceable.

6.5 Data storage

6.5.1 Manufacturers or importers of electrical and electronic products shall retain technical support documentation related to the Information Table to provide it when required.

6.5.2 Manufacturers or importers of electrical and electronic products shall ensure the authenticity, validity and traceability of the content of the documentation.

6.5.3 The storage period of technical documentation shall be ≥ 3 years.

7 Requirements for declaration of conformity

When Class I products issue a "Supplier Declaration of Conformity for the Restriction of Hazardous Substances in Electrical and Electronic Products," the following requirements shall be met:

- a) The conformity technical documentation shall include test reports covering high-risk components containing hazardous substances for the corresponding product listed in Appendix B;
- b) The conformity technical documentation shall include the marks specified in Section 6.2 and the "Name and content information table of hazardous substances in electrical and electronic products" specified in Section 6.3.

8 Inspection rules

8.1 Inspection items and type

8.1.1 The inspection items shall cover all the contents specified in Section 5.1, and the inspection type shall be type tested.

8.1.2 During normal production, type testing shall be carried out at least once a year. It must also be carried out under any of the following circumstances:

- a) When a new product is finalized;
- b) When the product is manufactured at a different place;
- c) When requested by the national quality supervision authorities.

8.2 Sampling

8.2.1 Samples for type testing shall be randomly selected from the products that meet quality inspection standards in current production, according to the product specifications. The selected samples must be securely and properly sealed during transportation from the sampling location to the testing location.

8.2.2 Two samples shall be selected within an annual cycle from products of the same specification produced during the same cycle, where no changes have occurred in materials or processes.

8.3 Determination of test results

If the test results of all tested samples meet the requirements specified in Section 5.2, the product for the cycle is deemed compliant. If any test result of the samples does not meet the requirements specified in Section 5.2, the product for the cycle is deemed non-compliant.

9 Implementation of standards

For products manufactured or imported before the implementation date of this document, they shall comply with the requirements of this document starting from the 13th month after its implementation date.

Annex A (normative) List of hazardous substances restricted in this document

The list of hazardous substances restricted for use in electrical and electronic products in this document is shown in Table A.1.

Table A.1 List of hazardous substances restricted for use in electrical and electronic products

No.	Chinese name	English name	Abbreviation
1	铅	Lead	Pb
2	汞	Mercury	Hg
3	镉	Cadmium	Cd
4	六价铬	Hexavalent chromium	Cr(VI) or Cr ⁶⁺
5	多溴联苯	Polybrominated biphenyls	PBB
6	多溴二苯醚	Polybrominated diphenyl ethers	PBDE
7	邻苯二甲酸二正丁酯	Dibutyl phthalate	DBP
8	邻苯二甲酸二异丁酯	Diisobutyl phthalate	DIBP
9	邻苯二甲酸丁基苄酯	Butyl benzyl phthalate	BBP
10	邻苯二甲酸二(2-乙基)己酯	Bis(2-ethylhexyl) phthalate	DEHP

Annex B (normative) High-risk components containing hazardous substances in products in the catalogue for compliance management (first batch)

The high-risk components containing hazardous substances in products in the catalogue for compliance management (first batch) are shown in Table B.1.

Table B.1 High-risk components containing hazardous substances in products in the catalogue for compliance management (first batch)

No.	Product name	High-risk components containing hazardous substances
1	Refrigerator	Compressor components, various PCBA components, thermal insulation materials, sealant tapes, various cable jackets, and display components (if any)
2	Air regulator	Compressor components, various PCBA components, thermal insulation materials, sealant tapes, various cable jackets, and display components (if any)
3	Washing machine	Motor components, various PCBA components, sealant tapes, various cable jackets, and display components (if any)
4	Electric water heater	Heating rod components, various PCBA components, thermal insulation materials, various metal pipe fittings, various cable jackets, and display components (if any)
5	Printer	PCBA components in power components or power adapters, data processing PCBA components, various cable jackets, and display components (if any)
6	Photocopier	PCBA components in power components or power adapters, data processing PCBA components, various cable jackets, scanning components, and display components (if any)
7	Fax machine	PCBA components in power components or power adapters, data processing PCBA components, various cable jackets, scanning components, and display components (if any)
8	Television	PCBA components in power components or power adapters, data processing PCBA components, various PCBA components, various cable jackets, and display components
9	Monitor	PCBA components in power components or power adapters, data processing PCBA components, various cable jackets, and display components
10	Microcomputer	Mainboard PCBA, power components PCBA, hard disks, memory, various cable jackets, display components (if any), and battery components (if any)
11	Mobile communication handset	Various PCBA components, display components, battery components, and various cable jackets
12	Stand-alone telephone	Various PCBA components, various cable jackets, display components (if any), and battery components (if any)

Note: PCBA (Printed Circuit Board Assembly) refers to the assembly of electronic components, connectors, plug-ins, digital logic gates, micro-control units, etc., to the printed circuit board to form a complete electronic functional module through welding and plugging processes.

Annex C (normative) Graphic specifications of marks

B.1 The graphic specifications of marks for the restricted use of hazardous substances in electrical and electronic products are as follows:

- a) The graphic specification of mark I is shown in Figure C.1 (the number of grids is 100×100);
- b) The graphic specification of mark II is shown in Figure C.2 (the number of grids is 100×100);
- c) The font of number in Figure C.2 is Impact;
- d) The ratio of the height of number to inside and outside diameters of the circle in Figure C.2 is 5:8:12.

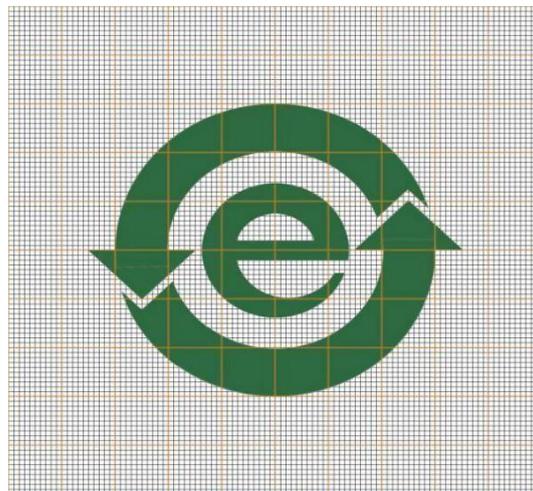


Figure C.1 Graphic specification of mark I

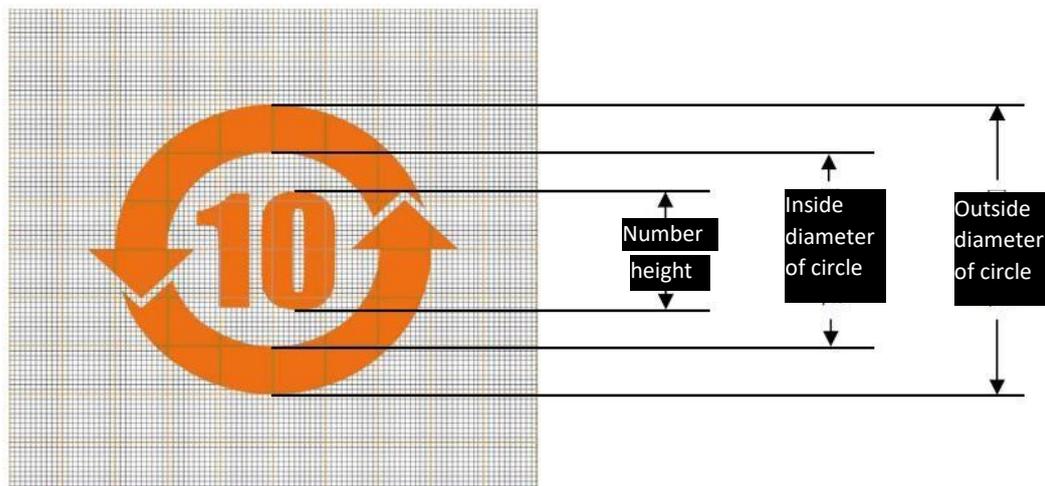


Figure C.2 Graphic specification of mark II

Annex D (informative) Mark explanations and color description

D.1 Mark explanations

The hazardous substance restriction mark for electrical and electronic products encompasses the following three aspects: presence of hazardous substances, environmentally-friendly use period (EFUP), and recyclability of an electrical and electronic product.

The mark in Figure 1 is generally green, indicating that the hazardous substances in the product meet the limit requirements. The letter "e" in the graphic represents electrical and electronic product and environmental, symbolizing green and environmentally-friendly electrical and electronic products. The circular arrowed line around the figure forms a loop, representing that electrical and electronic products are recyclable. The overall meaning of the figure is: this electrical and electronic product does not contain hazardous substances and is a green and environmentally friendly product.

The mark in Figure 2 is generally orange, indicating that the hazardous substances in the product do not meet the limit requirements; a replaceable number is located in the middle part of graphic, explicitly indicating the environment-friendly use period of electrical and electronic product; similarly, a circular arrowed line around the figure forms a loop, indicating that the electrical and electronic product can be recycled. The whole graphic indicates that although the hazardous substances in the electrical and electronic products do not meet the limit requirements, it can be safely used within the environmental protection use period.

D.2 Color description

If the mark shown in Figure 1 is green, it is recommended to use the CMYK color values: C: 85, M: 30, Y: 85, K: 20.

If the mark shown in Figure 2 is orange, it is recommended to use the CMYK values C: 0, M: 75, Y: 100, K: 0.

Introduction of SESEC Project



The Seconded European Standardization Expert in China (SESEC) is a visibility project co-financed by the European Commission (EC), the European Free Trade Association (EFTA) secretariat and the three European Standardization organizations (CEN, CENELEC and ETSI). Since 2006, there has been four SESEC projects in China, SESEC I (2006-2009), SESEC II (2009- 2012), SESEC III (2014-2017), SESEC IV (2018- 2022) and SESEC V (2022-2025). Dr. Betty XU is nominated as the SESEC expert and will spend the next 36 months on promoting EU-China standardization information exchange and EU-China standardization cooperation.

The SESEC project supports the strategic objectives of the European Union, EFTA and the European Standardization organizations (ESOs). The purpose of SESEC project is to:

- **Promote European and international standards in China;**

- **Improve contacts with different levels of the Chinese administration, industry and standardization bodies;**
- **Improve the visibility and understanding of the European Standardization System (ESS) in China;**
- **Gather regulatory and standardization intelligence.**

The following areas have been identified as sectoral project priorities by the SESEC project partners: Internet of Things (IoT) & Machine-to-Machine(M2M) communication, communication networks & services, cybersecurity & digital identity, Smart Cities (including transport, power grids & metering), electrical & electronic products, general product safety, medical devices, cosmetics, energy management & environmental protection (including eco-design & labeling, as well as environmental performance of buildings).