

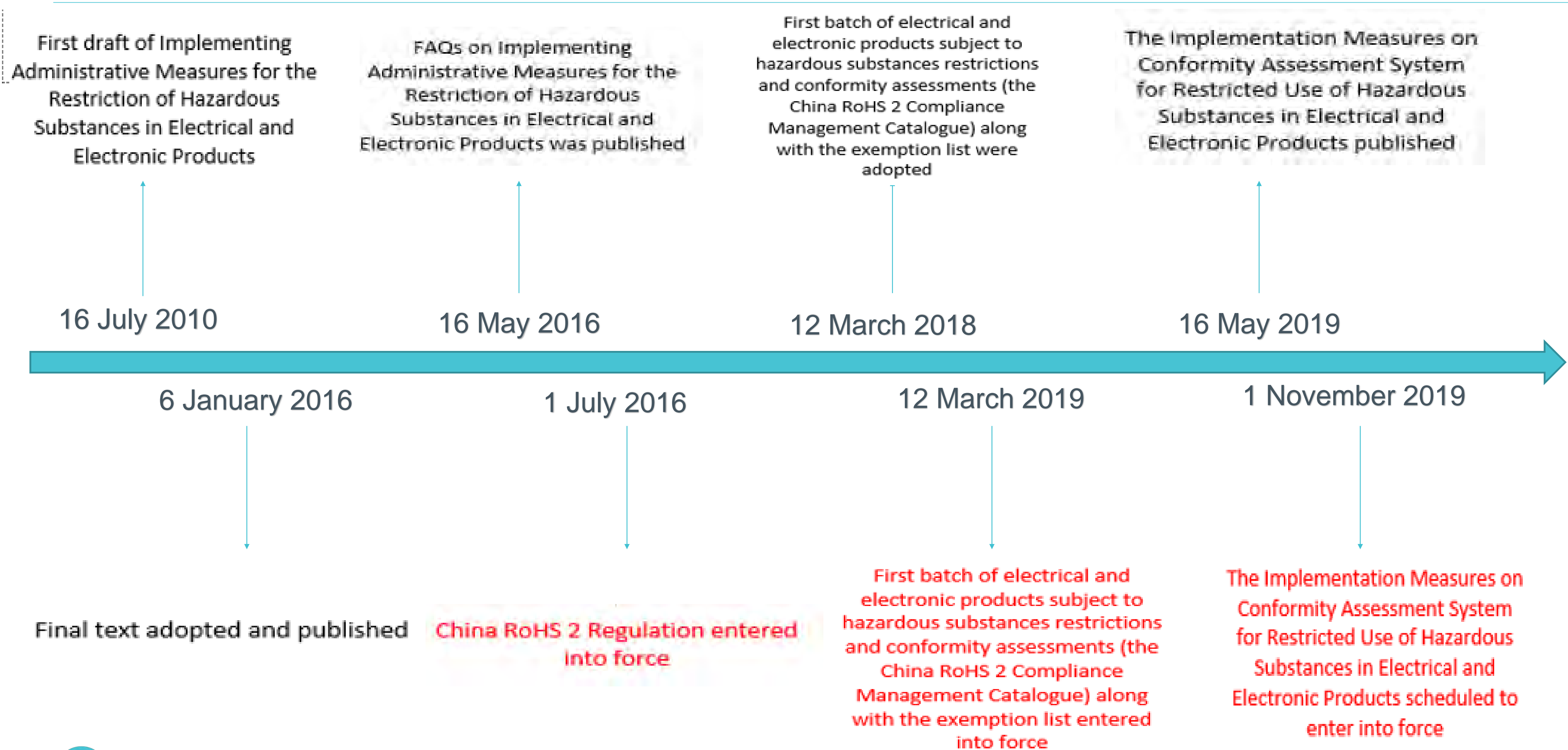


RoHS
2.0

Welcome

Regulatory Updates and Analysis of China RoHS 2

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26 November 2019



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- **9 July 2019** Conference on implementing conformity assessment system is held in Beijing. List of Interpretation documents and suggestions are published
 - **15 August 2019** --- CQC21-NV330-2019 Certification rules for the restriction on the use of hazardous substances in electric appliances and electronic products
 - **30 August 2019** --- GB/T 37876-2019 Guideline of conformity assessment for hazardous substances in electronic and electrical products
 - **8 October 2019** --- Public Service Platform on trial and User Guide published



Scope

Definitions

- **Electrical and Electronic Products** - products that are dependent on electric current or electromagnetic fields to work, or to generate or transmit current and are designed for use with a voltage rating not exceeding 1000V A.C. and 1500V D.C. and its complementary products.
- **Complementary products** - modules, components, parts and materials of the electrical and electronic products falling under the scope of the China RoHS 2, including standard or optional accessories for the products, and spare parts used for repair, renovation, expansion or upgrade.

Product Categories and Classifications

- Communications equipment
- Broadcasting equipment
- Computers and other office equipment
- Electrical and electronic products for household use
- Electronic instruments
- Electrical and electronic products for industrial use
- Power tools
- Medical electronic equipment and devices
- Lighting products
- Electronic products for cultural, educational, art and craft, sporting and entertainment purposes
- Primary batteries and secondary batteries

Products Categories and Classifications

- **GB/T 4754-2011** on the National Bureau of Statistics' Industrial Classification for National Economic Activities
- the Catalogue of product classifications for statistical use by the National Bureau of Statistics
- the Notes on Classification of Electronic Information Products
- FAQ document of China RoHS 2



Exemptions

China RoHS 2 excludes the following electrical and electronic products and their exclusive or customized complementary products:

1. Equipment involved in the production, transmission and distribution of electrical energy, such as power plants, power transmission and distribution stations, and systems and equipment responsible for power supply and distribution to buildings;
2. Electrical and electronic products for military use;
3. Electrical and electronic products for use in special or extreme environments;
4. Electrical and electronic products for export;
5. Products imported temporarily or electrical and electronic products entering the country for repair but not for sale;
6. Prototypes used for the purposes of scientific research/R&D or for testing;
7. Samples or exhibits etc. used for the purposes of exhibition but not for sale;



Exemptions (continues)

- Electrical and electronic products intended only to be mounted on a product are exempted from the Administrative Measures are not in the scope.
- Exemple: a display screen to be mounted on a vehicle or aircraft seat, or a generic component intended for mounting on power generating equipment.
- However, the aforementioned products sold separately on the market without an explicit end use are in the scope of the China RoHS 2.



Some examples

- **Q: How do wires and cables for different applications comply with the requirements of the Administrative Measures?**

A: All wires and cables used in electrical and electronic products subject to the Administrative Measures shall comply with the RoHS 2 requirements, with the exception of wires and cables involved in the transmission and distribution of power.

Wires and cables available for sale on the market with no end use specified shall also satisfy the requirements of the Administrative Measures



Q: Are toner cartridges, ink cartridges and other consumables in the scope of the Administrative Measures?

A: Consumables which are in themselves an electrical and electronic product that can be replaced, installed and used by the consumer (such as toner cartridges and ink cartridges) are in the scope of the Administrative Measures, either sold with the product or separately.

Consumables which are not electrical or electronic products, such as the dust bags used in a vacuum cleaner, shall comply with the Administrative measures when they are sold together with the vacuum cleaner, but are exempted from the requirements when sold separately on the market.



General Requirements

Restricted Hazardous Substances

- Lead and its compounds;
- Mercury and its compounds;
- Cadmium and its compounds;
- Hexavalent chromium compounds;
- Polybrominated biphenyls (PBB);
- Polybrominated diphenyl ethers (PBDE);
- Other hazardous substances regulated by the State



Standards to be complied with

- **SJ/T 11364-2014** Marking for the Restricted Use of Hazardous Substances in Electrical and Electronic Products
- **SJ/T 11388-2009** Environment-friendly Use Period of Electronic Information Products- General Guidelines
- **GB/T 26572-2011** Requirements of Concentration Limits for Certain Restricted Substances in Electrical and Electronic Products
- **GB/T 26125 - 2011** Electrical and Electronic Products - Determination of Six Regulated Substances (Lead, Mercury, Cadmium, Hexavalent Chromium, PBB, PBDE) (IDT IEC 62321:2008)
- **GB/T 29783-2013** Determination of Chromium (VI) in Electrical and Electronic Products - Atomic Fluorescence Spectrometry

Two-Step Approach

- **First Step** - EFUP Label and declaration of information of hazardous substances contained
- **Second Step** - Conformity assessment and labels



Step - One

- Applies to all electrical and electronic products falls under the Administrative Measures
- EFUP/EPUP Label



图1 标志 I



图2 标志 II

- Name and content of hazardous substances in products

Name and content of hazardous substances in products

| Component name | Hazardous substance | | | | | |
|----------------|---------------------|--------------|--------------|-------------------------------|--------------------------------|---------------------------------------|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent chromium (Cr (VI)) | Polybrominated biphenyls (PBB) | Polybrominated diphenyl ethers (PBDE) |
| | | | | | | |

This table was developed according to the provisions of SJ/T 11364.
 O: The content of such hazardous substance in all homogeneous materials of such component is below the limit required by GB/T 26572
 X: the content of such hazardous substance in a certain homogeneous material of such component is beyond the limit required by GB/T 26572
 (Enterprises may further explain the technical reasons for ticking "X" in the table above according to their actual situation herein.)

Step - Two: Application Scope

- Applies to products listed in the Compliance Management Catalogue for Restricted Use of Hazardous Substances in Electrical and Electronic Products (“the Compliance Management Catalogue”) and manufactured after **1 November 2019**
 - **Refrigerators** (up to 800 liters)
 - **Air conditioners** ($\leq 14,000$ watts)
 - **Washing machines** (≤ 10 kg of dry clothes)
 - **Water heaters**
 - **Printers** ($\leq A3$, ≤ 60 pages/minute)
 - **Copiers** ($\leq A3$, ≤ 60 pages/minute)
 - **Fax machines**
 - **TV sets**
 - **Monitors**
 - **Microcomputers** (desktop with necessary peripherals, laptops, tablest)
 - **Mobile communication handset**
 - **Telephones**

Step-Two: Exemptions

- Exemption List - providing 39 exemptions on uses of lead, cadmium, mercury and hexavalent chromium in electrical and electronic products
- Basically adopts EU exemption list
- Only one exemption is time-limited - mercury in high pressure vapour lamps (HPMV) which is set to expire on **31 December 2020**



Step-Two: Conformity Assessment

- Article 18 of Administrative Measures
- The Implementation Measures on the Conformity Assessment System published on **16 May 2019**.
- Voluntary Certification and Self-declaration
- Conformity assessment label
- Submitting all information to the Service Platform
- **GB/T 37876-2019** Guideline on conformity assessment for hazardous substances in electronic and electrical products
- **GB/T 36560-2018** Specifications for technical documentation for the conformity demonstration of electrical and electronic products with respect to the restriction of hazardous substances



Conformity Assessment

Voluntary Certification

- Established in May 2010
- Regulations on Voluntary Certification for Restricted Use of Hazardous Substances in Electrical and Electronic Products - Annex 1 of Implementation Measures
- Voluntary RoHS certification rules was repealed on **5 September 2019** with the new Implementation Rules **CQC21-NV330-2019**
- Standards to be complied with
 - **GB/T 27050.1-2016** Conformity Assessment - Supplier's Declaration of Conformity - Part 1: General Requirements
 - **GB/T 26572 -2011** Requirements of Concentration Limits for Certain Restricted Substances in Electrical and Electronic Products
 - **GB/T 26125 - 2011** Electrical and Electronic Products - Determination of Six Regulated Substances (Lead, Mercury, Cadmium, Hexavalent Chromium, PBB, PBDE) (IDT IEC 62321:2008)

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- Manufacturer must comply with Management Competency Requirements set out in Annex 1 of **CQC21-NV330-2019**
 - Certificate valid for 5 years
 - Conformity label - comply with Administrative Measures on the Use of the Green Product Certification Marks and Annex 5 of the **CQC21-NV330-2019**




- The certification institution should submit certification decisions to the Service Platform within **5 days** of issuance of certificate.

Self-declaration

- Suppliers - manufacturers or delegated representatives if the manufacturer is not a legal entity in China
- Regulation on Suppliers' Declaration of Conformity – Annex 2 of the Implementation Measures
- “Declaration of Conformity” - no time limit
- Conformity reports - demonstrate the compliance of products in one of the following ways:
 - The conformity reports must contain a product testing report issued by in-house testing lab or third-party testing lab in compliance with national or industrial standards
 - The conformity report is formed on the basis of evaluation of hazardous substances contained in all components, parts, and material
- All documents should be in Chinese (Simplified) and submitted to the Service Platform within **30** days of launching the product on the market
- Conformity label for self-declaration



| | China RoHS Supplier Declaration of Conformity | EU RoHS Declaration of Conformity |
|--|--|---|
| Legal base of conformity assessment | The Implementation Rules on Supplier Declaration of Conformity on Restricted Use of Hazardous Substances in Electrical and Electronic Products; List of Exemptions | 2011/65/EU |
| Application scope | <ol style="list-style-type: none"> 1. Refrigerators 2. Air conditioners 3. Washing machine 4. Water heaters 5. Printers 6. Copiers 7. Fax machines 8. TV sets 9. Monitors 10. Microcomputers 11. Mobile communication handset 12. Telephones | <ol style="list-style-type: none"> 1. Large household appliances. 2. Small household appliances. 3. IT and telecommunications equipment. 4. Consumer equipment. 5. Lighting equipment. 6. Electrical and electronic tools. 7. Toys, leisure and sports equipment. 8. Medical devices. 9. Monitoring and control instruments including industrial monitoring and control instruments. 10. Automatic dispensers. 11. Other EEE not covered by any of the categories above. |
| Restricted Hazardous Substances | Pb (0.1%); Hg (0.1%); Cd (0.01%); Cr (VI) (0.1%); PBB (0.1%); PBDE (0.1%) | Pb (0.1%); Hg (0.1%); Cd (0.01%); Cr (VI) (0.1%); PBB (0.1%); PBDE (0.1%); DEHP (0.1%); BBP (0.1%); DBP (0.1%); DIBP (0.1%) |
| Exemption | List of Exemptions published with the Compliance Management Catalogue (39 exemptions) | Annex III (42 exemptions) |
| Enforcement date | 1 November 2019 | 2 January 2013 |
| Applicable standards | GB/T 26125, GB/T 26572 | EN 50581; EN 6231 |
| Label |  | CE |

Labelling



EFUP/EPUP Label

- Environment Friendly Use Period / Environment Protection Use Period Label
- Applicable to all electrical and electronic products fall in the scope set out in Administrative Measures of China RoHS 2
- **SJ/T 11364-2014** Marking for the Restricted Use of Hazardous Substances in Electrical and Electronic Products
- Products that do not contain hazardous substances or in which the contents of all hazardous substances fall within the limits set forth in **GB/T 26571-2011** should be labelled with the “e” label and no need to attach a hazardous substance content table



图1 标志 I

- Products in which the content of hazardous substances exceeds the limits in **GB/T 26572-2011** should be labeled as follows, with a hazardous substance content table attached in product manual



图 2 标志 II

Name and content of hazardous substances in products

| Component name | Hazardous substance | | | | | |
|----------------|---------------------|--------------|--------------|-------------------------------|--------------------------------|---------------------------------------|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent chromium (Cr (VI)) | Polybrominated biphenyls (PBB) | Polybrominated diphenyl ethers (PBDE) |
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- **SJ/Z 11388-2009** General Guidelines of Environment Friendly Use Period of Electronic Information Products

Conformity Assessment Label

- Applicable to all electrical and electronic products listed in the Compliance Management Catalogue and manufactured after 1 November 2019
- The conformity assessment label does not supersede the EFUP/EPUP label

- **Voluntary Certification**



- **Self-declaration**



- Administrative Measures on the Use of the Green Product Certification Mark
- What is the relationship between conformity assessment label and green mark?



Public Service Platform



- On trial from **8 October 2019**
- Conformity assessment result search; Self-declaration submission; Voluntary certification submission
- User Manual is available on the website



Questions???





Thank You

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