

**THE MINISTRY OF
INDUSTRY AND TRADE**

No.: 30/2011/TT-BCT

**SOCIALIST REPUBLIC OF VIET NAM
Independence - Freedom – Happiness**

Hanoi, August 10, 2011

CIRCULAR

**STIPULATING TEMPORARILY THE PERMISSIBLE CONTENT LIMITATION OF SOME
TOXIC CHEMICALS IN THE ELECTRONIC, ELECTRICAL PRODUCTS**

Pursuant to Decree No.189/2007/ND-CP dated December 27, 2007 of the Government on functions, tasks, powers and organizational structure of the Ministry of Industry and Trade; Decree No.44/2011/ND-CP dated June 14, 2011 of the Government amending, supplementing Article 3 of Decree No.189/2007/ND-CP;

Pursuant to the Law on Chemicals dated November 21, 2007;

Minister of Industry and Trade stipulates temporarily the permissible content limitation of some toxic chemicals in the electronic, electrical products as follows:

Article 1. Scope of governing

1. This Circular stipulates temporarily on permissible content limitation of some hazardous chemicals in the electronic, electrical products circulated on the market of Vietnam.
2. The following goods do not fall within the scope of this Circular:
 - a) The electrical, electronic components; batteries;
 - b) Spare parts for repair, reuse, or upgrading of electrical, electronic products;
 - c) The electrical, electronic products which are gifts, souvenirs, goods for exhibitions and product introduction; baggage, movable assets of organizations, individuals; and goods temporarily imported for re-export, goods in transit;
 - d) The electrical, electronic products circulated on the market of Vietnam prior to the effective date of this Circular.

Article 2. Subjects of application

This Circular applies to organizations and individuals manufacturing, trading, importing electronic, electrical products.

Article 3. Interpretation of terms

In this Circular, the terms below are construed as follows:

1. Permissible content limitation of some hazardous substances in the electrical, electronic products is the maximum volume percentage of these substances permitted to be in the homogeneous materials constituting electrical, electronic products.
2. The homogeneous material is a material unable to be separated into other material by mechanical methods.

Article 4. Electrical, electronic products must be ensured the permissible content limitation

Electrical, electronic products circulated on the market of Vietnam must be ensured the permissible content limitation of some toxic chemicals specified in Annex 2 attached to this Circular, including the following product groups:

1. Big size appliances.
2. Small size appliances.
3. Information technology and communications equipment.
4. Consumption devices.
5. Lighting Equipment.
6. Electrical, electronic tools (except for the big, fixed tools for industrial use).
7. Toys, equipment of entertainment, and sports.
8. Automatic measuring instruments.

Article 5. Toxic chemicals limited in the electronic, electrical products

1. Toxic chemicals limited in the electrical, electronic products include the chemicals: Lead (Pb), Cadmium (Cd), mercury (Hg), Chromium valence 6 (Cr6 +), polybrominated biphenyl (PBB) and polybrominated diphenyl ethers (PBDE).
2. Content of hazardous chemicals in the electrical, electronic products circulated on the market of Vietnam are not exceeded the permissible limitation specified in the Annex 1, except for the cases specified in Annex 3 enclosed hereof.
3. An electrical, electronic product is considered to comply with content limitation of toxic chemicals if all homogeneous materials constituting such product comply with the content limitation of toxic chemicals.
4. When having no respective Vietnam Regulation, to assess the content of hazardous substances in the electrical, electronic product, temporarily apply the existing standard IEC 62321: Electric technical Products - Determination of the threshold of six chemicals regulated (the English name is Electrotechnical products - Determination of levels of six regulated substances).

Article 6. Responsibilities of the organizations, individuals manufacturing, importing electronic, electrical products

1. Ensuring electrical, electronic products manufactured or imported to have content of hazardous substances not exceeding the limitation specified in Annex 1 of this Circular.
2. Organizations and individuals manufacturing or importing electrical, electronic products disclose information generally in the direction of: electrical, electronic products manufactured, imported by organizations or individuals complied with the provisions of this Circular on permissible content limitation of the toxic substances. The disclosure of information is made by one of the following forms:
 - a) Posting on the Website of organizations and individuals;
 - b) Information in the instruction manual may be in the form of instruction manual or the instruction paper accompanying products;
 - c) Information in the electronic form (CD, ...);

d) Being printed directly on the products or packaging.

3. In all cases, organizations and individuals manufacturing or importing electrical, electronic products shall be self-responsible before the law for the accuracy of the information disclosed as provided in Clause 2 of this Article.

4. Developing and maintaining management records of hazardous chemicals content in electrical, electronic products circulated on the Vietnam market and presenting to the competent authority upon request. The management records include: list of inputs; quality control votes of inputs raw materials and component; process of management of toxic chemicals content.

Article 7. Responsibilities of organizations and individuals trading electronic, electrical products

The organizations, individuals distribute, retail electronic, electrical products are allowed to trade only the products implemented the announcement of information on the permissible content limitation of the toxic chemicals specified in Clause 2 Article 6 of this Circular.

Article 8. Responsibilities of state management agencies

1. Department of Chemicals

a) To preside over coordinate with agencies involved in testing organizations and individuals that manufacture or import electrical, electronic products not guaranteeing the permissible content limitation specified in this Circular;

b) To appoint the laboratory that has been accredited in accordance with the requirements of ISO/IEC/17025: General requirements for the competence of the laboratory and calibration (the English name is General requirements for the competence of testing and calibration Laboratories) is to allow to test the criteria in the Annex 1 attached to this Circular. The appointment of the laboratory allowed to test shall comply with Circular No.09/2009/TT-BKHCN dated April 08, 2009 of Ministry of Science and Technology guiding on the requirements, order, and procedures for appointment of conformity assessment organizations.

2. Market Control Department

To handle violations in accordance with the law regulations for electronic, electrical products circulated on the market not guaranteeing the permissible content limitation.

Article 9. Effect

1. This Circular takes effect from September 23, 2011 and is implemented until having the respective National Technical Regulations to replace.

2. From December 01, 2012, electrical, electronic products manufactured, imported must implement the information announcement on the permissible content limitation of some hazardous chemicals as prescribed in Clause 2, Article 6 of this Circular.

3. During the course of implementation should any problems arise, organizations and individuals timely to reflect to the Ministry of Industry and Trade to amend and supplement accordingly./.

**FOR MINISTER
DEPUTY MINISTER**

Nguyen Nam Hai

ANNEX 1

PERMISSIBLE CONTENT LIMITATION OF SOME HAZARDOUS CHEMICALS IN THE ELECTRICAL AND ELECTRONIC PRODUCTS

(Issuing together with the Circular No.30/2011/TT-BCT dated August 10, 2011 of the Ministry of Industry and Trade)

No.	Chemicals	Permissible content limitation
1	Pb	0,1% volume
2	Hg	0,1% volume
3	Cd	0,01% volume
4	Cr6+	0,1% volume
5	PBB	0,1% volume
6	PBDE	0,1% volume

ANNEX 2

LIST OF THE ELECTRICAL AND ELECTRONIC PRODUCTS REQUIRED TO ENSURE PERMISSIBLE CONTENT LIMITATION OF SOME HAZARDOUS CHEMICALS

(Issuing together with the Circular No.30/2011/TT-BCT dated August 10, 2011 of the Ministry of Industry and Trade)

Products' names	HS Code
1. BIG SIZE APPLIANCES	
Big size freezing machine	8418
Refrigerator	8418
Ice generator	8418
Big size equipment used to freeze, preserve, store food	8418
Washing machine	8451
Cloth drying machine	8451
Dishwashing machine	8422
Household articles	7323
Electric oven	8516
Electric heater	7322
Microwave oven	8516
The big format equipment used for cooking and processing other food	8516
Electric heater	8516
Heating device operated by electricity	8516
Big equipment used for heating rooms, beds	8516
Electric fan	8414

Air conditioner	8415
The air conditioner, ventilation blowers or other air equipment	8415

2. SMALL SIZE APPLIANCES

Vacuum cleaner	8508
Vacuum cleaner at the carpet	8508
The equipment used for sewing, knitting and processing garments (household appliances)	8205
Irons and other appliances for ironing clothing	8516
Electric toaster	7321
Electric frying pan	7321
Coffee blender, coffee grinder	8516
Other devices used to open and seal containers, packaging	7615
Knives of all types	8211
Device used for cutting hair	8510
Hair drier	8516
Electric toothbrushes	9603
Massage and other body care equipment	9019
Watches and other equipments used for measuring, displaying and recording time	9102
Wall clocks and other devices used for measuring, displaying and recording time	9105
Types of scales	8423

3. EQUIPMENT OF INFORMATION TECHNOLOGY AND COMMUNICATIONS

- Centralized data processing, including:	
Big size computer (server)	8471
Small size computer	8471
Printing, photocopy machine	8443
- Personal computers, include:	
Personal computers (CPU, mouse, screen and keyboard);	8471
Lap top	8471
Notebook typed computer	8471
Notepad typed computer	8471
Printer	8443
Copying device	8443
Calculator	8471
The other products and equipment used to gather, store, process, present, or connect information by electronic means	----
- User terminals and systems, including:	
Fax machine	8443
Telegraph machine	8517; 8518
Telephone	8518
Public telephone	8518
Handie - talkie	8517

Hand phone	8517
The products and devices transmitting sound, pictures and other information by telecommunications	8517

4. CONSUMPTION EQUIPMENT

Radios	8527
Television	8528
Camcorders	8521
Video recorders	8521
Acoustic receiver	8527
Amplifier	8523
Musical instrument	92
The other products and equipment used to record and play back audio or video or other technologies to deliver sound and images by telecommunications....	----

5. LIGHTING EQUIPMENT

light source of the fluorescent lamp, except for the light source used in the family	8539
Straight fluorescent lamps	8539
Miniature fluorescent lamps	8539
High intensity discharge lamps, including high pressure sodium lamps and metal halogen lamps	8539
Low voltage sodium lamps	8539
The other lighting equipment or devices used for distribution and control of light other than incandescent bulbs	8539

6. ELECTRIC AND ELECTRONIC TOOLS

Driller	8459
Saw machine	8461; 8465
Sewing machine	8452
The devices used for turning, grinding, polishing, grinding, sawing, cutting, trimming, drilling, making holes, folding, bending or handling wood, metal or other materials	----
Tools for riveting, nailing or screwing or pulling rivets, nails, screws and other hand tools	8203
Tools for welding (welding machine, welding stock, gas welding or electric soldering ...)	8468
Equipment for spraying, dispersing liquids, gases	8424
Tools for cutting, pruning or other gardening activities	8201

7. TOYS AND ENTERTAINMENT, SPORTS EQUIPMENT

cars, trains toy run by electricity	9503
Portable game machine	9503
Equipment for cycling, diving, running, rowing and other sports equipment have electrical or electronic components	9506

Slot machines	9504
The other games operated by coins, counters, bank card	9504

8. AUTOMATIC MEASUREMENT TOOL

Machines for filling, closing, sealing or labeling in the bottles, cans, boxes, bags or other containers	8422
Automatic measuring equipment of solid products	8423
Money counting equipment, automated teller machine	9029
The automatically-vending equipment of all types of products	8476
The measurement instruments in general	9029

ANNEX 3

THE CASES OF EXEMPTION NOT APPLICABLE PERMISSIBLE CONTENT
LIMITATION OF SOME HAZARDOUS CHEMICALS PRESCRIBED IN ANNEX 1
(Issuing together with the Circular No.30/2011/TT-BCT dated August 10, 2011 of the Ministry of
Industry and Trade)

No.	The cases of exemption	Cope and time limit of application
1	Mercury in unipolar fluorescent lamps is not exceeded (calculated for each burner):	
1.1	Used for lighting purposes in general with capacity of less than 30 W: 5 mg	Expiry on 31/12/2011; After 31/12/2011, each burner can be used 3.5 mg until 31/12/2012; After 31/12/2012 each burner shall be used 2.5 mg
1.2	Used for lighting purposes in general with capacity of from 30W to 50W: 5 mg	Expiry on 31/12/2011; After 31/12/2011, each burner can be used 3.5 mg
1.3	Used for lighting purposes in general with capacity of from 50W to 150W: 5 mg	
1.4	Used for lighting purposes in general with capacity of more than 150W: 15 mg	
1.5	With the fluorescent lamps with square or circular design and with a tube diameter of smaller than 17mm for lighting purposes in general	Not be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 7mg
1.6	Used for special purposes: 5mg	
2	Mercury in some types of fluorescent lamps include:	
2.1	Mercury in two poles straight fluorescent lamps for lighting purposes in general is not exceeded (calculated for each lamp):	
	- Fluorescent lamps of spectral 3 lines with an average lifespan and tube diameter of smaller than 9mm: 5mg	Expiry on 31/12/2011; After 31/12/2011, each lamp can be used 4 mg

	- Fluorescent lamps of spectral 3 lines with an average lifespan and tube diameter of more than or equal to 9mm and less than or equal to 17mm: 5mg	Expiry on 31/12/2011; After 31/12/2011, each lamp can be used 3 mg
	- Fluorescent lamps of spectral 3 lines with an average lifespan and tube diameter of more than or equal to 17mm and less than or equal to 28mm: 5mg	Expiry on 31/12/2011; After 31/12/2011, each lamp can be used 3 mg
	- Fluorescent lamps of spectral 3 lines with an average lifespan and tube diameter of more than or equal to 28 mm: 5mg	Expiry on 31/12/2012; After 31/12/2012, each lamp can be used 3.5 mg
	- Fluorescent lamps of spectral 3 lines with a long lifespan (more than or equal to 2,500 hours): 8 mg	Expiry on 31/12/2011; After 31/12/2011, each lamp can be used 5 mg
2.2	Mercury in other types of fluorescent lamps is not exceeded (calculated each lamp):	
	- Calcium halophotphat fluorescent lamps with straight design and tube diameter of more than 28mm: 10mg	Expiry on 13/4/2012
	- Powder calcium halophotphat fluorescent without straight design (any diameter): 15mg	Expiry on 13/4/2016
	- Fluorescent lamps of spectral 3 lines without straight design with tube diameter of more than 17 mm	Not to be limited in use until 31/12/2011; After 31/12/2011, each lamp can be used 15 mg
	- The type of lamps used for lighting purposes in general and other special purposes (eg inducing lamps)	Not to be limited in use until 31/12/2011; After 31/12/2011, each lamp can be used 15 mg
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps for special purposes is not exceeded (calculated for each lamp):	
3.1	Short type (more than or equal to 500mm)	Not to be limited in use until 31/12/2011; After 31/12/2011, each lamp can be used 3.5 mg
3.2	Medium type (more than 500 mm and smaller than 1500 mm)	Not to be limited in use until 31/12/2011; After 31/12/2011, each lamp can be used 5 mg
3.3	Long type (more than 1.500 mm)	Not to be limited in use until

		31/12/2011; After 31/12/2011, each lamp can be used 13 mg
4	Mercury in some other types of lamps includes:	
4.1	Mercury in other types of electric discharge lamps of low pressure (calculated for each lamp)	Not to be limited in use until 31/12/2011; After 31/12/2011, each lamp can be used 15 mg
4.2	Mercury in high pressure sodium vapor lamps used for ordinary lighting purposes is not exceeded (calculated per each burner) in all types of lamps with Ra improved CRI index of more than 60:	
	$P < 155 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 30 mg
	$155 \text{ W} < P < 405 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 40 mg
	$P > 450 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 40 mg
4.3	Mercury in other high pressure sodium vapor lamps used for ordinary lighting purposes is not exceeded (calculated for each burner)	
	$P < 155 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 25 mg
	$155 \text{ W} < P < 405 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 30 mg
	$P \text{ lớn hơn } 405 \text{ W}$	Not to be limited in use until 31/12/2011; After 31/12/2011, each burner can be used 40 mg

4.4	Mercury in high pressure mercury vapor lamps	Expiry on 13/4/2015
4.5	Mercury in metal halide lamps	
4.6	Mercury in other electric discharge lamps used for special purposes not mentioned in this table	
5	Lead in glass part of cathode ray tubes, electronic components, fluorescent lamps includes:	
5.1	Lead in glass of cathode ray discharge tubes	
5.2	Lead in glass of fluorescent lamp tubes not exceeding 0.2% of its volume	
6	Lead as an alloy component in steel including:	
6.1	Lead as a component of the steel alloy for mechanical processing purposes and in galvanized steel not exceeding 0.35% of its volume	
6.2	Lead as a component of aluminum alloy containing not more than 0.4% of its volume	
6.3	Copper alloy containing not more than 4% of lead volume	
7	Lead in some other details, including:	
7.1	Lead in solder of high melting temperature (eg, lead-base alloys containing 85% of lead volume or more)	
7.2	Lead in solder in servers, systems and devices of storage, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunication use	
7.3	Equipment, electronic, electric parts containing lead in glass or ceramic except for dielectric ceramics in the capacitor (eg, for piezoelectric devices), or in glass or in the mixed embryo ceramics.	
	Lead in dielectric ceramic in the capacitor of nominal voltage more than or equal to 125 V (for AC) or 250 V (for DC)	
	Lead in dielectric ceramic in the capacitor of nominal voltage less than 125 V (for AC) or 250 V (for DC)	Expiry on 01/01/2013, then may be used in the replacement parts for products circulated on the market before 01/01/2013
8	Cadmium and its compounds in the cases:	

8.1	Cadmium and its compounds in all kinds of thermal fuses used one time	Expiry on 01/01/2012, then may be used in the replacement parts for products circulated on the market before 01/01/2012
8.2	Cadmium and its compounds in electrical switch	
9	Valence chromium 6 as an anti-corrosion agent in the cooling system of carbon steel in types of intake air conditioners not exceeding 0.75% of volume of cooling liquid.	
10	Lead in the bearing shell and ferrule of the types of compressors containing frozen substance used in applications of producing heat, ventilation, air conditioning and refrigeration.	
11	Lead used in systems of adapters	
11.1	Lead used in C-shaped pressed adapter systems	May be used in the replacement parts for products circulated on the market before 24/9/2010
11.2	Lead used in other adapter systems other than the C-shaped pressed adapter system	Expiry on 01/01/2013, then may be used in the replacement parts for products circulated on the market before 01/01/2013
12	Lead used as a coating material of C-ring formed heat conduction parts	May be used in the replacement parts for products circulated on the market before 24/9/2010
13	Lead and cadmium in glass	
13.1	Lead in glass used in optical applications	
13.2	Cadmium and lead in the filter glasses and glass used as a reflective layer	
14	Lead in solders containing more than two components used in joints between the legs and microprocessors with a lead content obtaining 80% to 85% of volume	Expiry on 01/01/2011, then may be used in the replacement parts for products circulated on the market before 01/01/2011
15	Lead in solders to complete the electrical connection between semiconductor substrate and carrier within the integrated switching chip	
16	Lead in linear incandescent lamps with silicate coated tubes	Expiry on 01/9/2013
17	Halide lead as an emission in the types of high-density electric discharge lamps used in the dedicated copy applications	
17	Lead as an activator in the fluorescent	

	powder (lead obtaining less than or equal to 1% by volume) of electric discharge lamps when used as dying- leather lamps containing phosphors such as BSP (BaSi2O5:Pb)	
18	Lead and cadmium in printing inks used in the glaze application on glass, such as bosilicat glass and soda lime glass.	
19	Lead in completion of details of parts with slender lace, apart from the connections with lace step of less than or equal to 0.65 mm	Be used in the replacement parts for products circulated on the market before 24/9/2010
20	Lead in solders for soldering multilayer ceramic capacitor of plate shape through holes and planar piece.	
21	Lead oxide in electric discharge screen on surface (SED) used in structural components	
22	Lead layer coating crystal	
23	Cadmium alloys as mechanical or electrical solder for electricity conductive wires placed directly onto the coil of audio in the converters used in high-performance speakers with sound pressure level of more than 100dB	
24	Lead in soldering materials in the flat fluorescent lamps not containing mercury (used in liquid crystal displays, industrial light)	
25	Lead oxide in glass-sealed pieces used as connect objects for Argon and Krypton laser tubes s	
26	Lead in solders for soldering thin copper wires with a diameter of less than or equal to 100 µm used in power transformers.	
27	Lead in parts of potentiometers.	
28	Lead in the coating of high voltage diodes with zinc borate glass body	
29	Cadmium and cadmium oxide in the paste coating to link beryllium oxide with aluminum	
30	Cadmium in II-VI LEDs lamps changed color for systems of display and lighting. (less than 10 µg Cd per mm ² of lighting area)	Expiry on 01/7/2014

