

EAEU TR 037/2016 Technical Regulation of the Eurasian Economic Union "On the Limitation of the Use of Hazardous Substances in Electrical and Radio Electronics Products"

ACCEPTED
Council Decision
Eurasian Economic Commission
dated October 18, 2016 N 113

Technical Regulation of the Eurasian Economic Union "On the Limitation of the Use of Hazardous Substances in Electrical and Radio Electronics Products" (TR EAEU 037/2016)

I. Application area

1. This technical regulation was developed in accordance with the Treaty on the Eurasian Economic Union of May 29, 2014 in order to protect human life and health, the environment, as well as to prevent actions that mislead consumers (users) of electrical and electronic products regarding the contents of dangerous substances.

This technical regulation establishes the requirements for the application and execution on the territory of the Eurasian Economic Union (hereinafter referred to as the Union) of requirements for limiting the use of hazardous substances in electrical and radio electronic products put into circulation on the territory of the Union to ensure their free movement.

If other technical regulations of the Union (Customs Union) are adopted for products of electrical engineering and radio electronics that establish the requirements for these products, then such products of electrical engineering and radio electronics must meet the requirements of all technical regulations of the Union (Customs Union), the effect of which applies to them.

2. The validity of this technical regulation applies to products of electrical engineering and radio electronics that are put into circulation on the territory of the Union according to the list in accordance with Appendix N 1.

3. The effect of this technical regulation does not apply to:

- a) products of electrical engineering and electronics intended for use at a rated voltage of more than 1000 V AC and 1500 V DC, unless otherwise provided in Appendix N 1 to these technical regulations;
- b) products of electrical engineering and radio electronics intended exclusively for use as components of electrical equipment not included in the list provided for in Appendix N 1 to these technical regulations;
- c) electric toys;
- d) photovoltaic panels (solar panels), which are part of the products of electrical engineering and radio electronics;
- e) products of electrical engineering and radio electronics intended for use as part of ground and orbital space objects;
- f) electrical equipment intended exclusively for use in air, water, land and underground transport;
- g) electric batteries and accumulators, including those put into circulation on the territory of the Union as a part of products of electrical engineering and radio electronics;
- h) used (exploitation) products of electrical engineering and radio electronics;
- i) measuring instruments;
- j) medical devices.

II. Basic concepts

4. For the purposes of applying this technical regulation, concepts are used that mean the following:

"toy" - a product or material intended for the play of a child (children) under the age of 14 years;

"electric toy" - a toy in which at least one function is carried out due to electric energy;

"products of electrical engineering and radio electronics" - products whose functioning as intended is determined by the presence, use, development, conversion, transmission and distribution of electric currents and (or) electromagnetic fields that are intended for direct use or are built into machines, mechanisms, apparatuses, devices and other equipment;

"импортер" - резидент государства - члена Союза, который заключил с нерезидентом государства - члена Союза внешнеторговый договор на передачу изделий электротехники и

радиоэлектроники, осуществляет реализацию этих изделий и несет ответственность за их compliance with the requirements of these technical regulations;

"homogeneous (homogeneous) material" - a material with a constant composition in its entire volume, consisting of one substance or a combination of substances and (or) materials that cannot be separated mechanically (by disassembling, cutting, grinding, grinding or other mechanical impact)

III. Rules for the circulation of electrical and electronic products on the Union market

5. The product of electrical engineering and radio electronics is put into circulation on the territory of the Union when it complies with these technical regulations, as well as other technical regulations of the Union (Customs Union), the effect of which applies to it, and provided that it has passed conformity confirmation in accordance with Section VII of this technical regulations, as well as according to other technical regulations of the Union (Customs Union), the effect of which applies to it.

6. A product of electrical engineering and radio electronics, the compliance of which with the requirements of this technical regulation, as well as with the requirements of other technical regulations of the Union (Customs Union) is not confirmed, shall not be marked with a single sign of product circulation on the Union market.

IV. Restrictions on the use of hazardous substances

7. The product of electrical engineering and radio electronics should be designed and manufactured in such a way that it does not contain:

a) hazardous substances according to the list in accordance with Appendix N 2;

b) homogeneous (homogeneous) materials containing hazardous substances in a concentration exceeding the permissible level specified in the list provided for in Appendix N 2 to this technical regulation.

8. In relation to products of electrical engineering and radio electronics, special requirements are established to limit the use of hazardous substances in accordance with Appendix N 3.

V. Labeling and Operational Requirements

9. Name and (or) designation of an electrical and electronic product (type, brand, model (if any)), its main parameters and characteristics, name and (or) trademark of the manufacturer, name of

the state in which the electrical and electronic product was manufactured, must be marked on this product and are indicated in the operating documents attached to it.

In this case, the name and (or) designation of the product of electrical engineering and radio electronics (type, brand, model (if any)), the name and (or) trademark of the manufacturer must also be applied to the packaging.

10. If the information specified in clause 9 of these technical regulations cannot be applied to the product of electrical engineering and radio electronics, then they can be indicated only in the operating documents attached to this product. In this case, the name and (or) designation of the product of electrical engineering and radio electronics (type, brand, model (if any)), the name and (or) trademark of the manufacturer must be applied to the packaging.

11. The marking of an electrical and electronic product must be legible, easy to read, and must be applied to the electrical and electronic product in a place accessible for inspection without disassembly using a tool.

12. The operational documents for the product of electrical engineering and radio electronics should contain:

- a) the information specified in paragraph 9 of these technical regulations;
- b) information on the purpose of the product;
- c) characteristics and parameters of the product;
- d) rules and conditions of operation (use), installation, storage, transportation (transportation), sale and disposal of the product (if necessary, relevant requirements);
- e) information on measures to be taken when a product malfunction is detected;
- f) the name and location of the manufacturer (person authorized by the manufacturer), the importer, their contact information;
- g) information about the month and year of manufacture of the product and (or) the place of application of such information or the method for determining the year of manufacture.

13. The marking and preparation of operational documents are carried out in Russian and, if there are relevant requirements in the legislation of the Member States of the Union (hereinafter referred to as the Member States), in the state language (official languages) of the Member State in whose territory the products are sold. Units of measure, alphabetic trademarks, proper names, names of settlements and other names and details in the marking and operating documents may be given in other languages.

Operational documents are made out on paper. A set of operational documents on electronic media may be attached to them. Operational documents included in the set of products of

electrical and radio electronics for non-domestic purposes, can be issued only on electronic media.

VI. Ensuring compliance of products of electrical engineering and electronics with the requirements of technical regulations

14. Conformity of the product of electrical engineering and radio electronics to these technical regulations is ensured by the implementation of its requirements to limit the use of hazardous substances.

15. Methods of research (testing) and measurement of electrical and electronic products are established by the standards included in the list of standards containing the rules and methods of research (testing) and measurement, including sampling rules necessary for the application and implementation of the requirements of this technical regulation and implementation conformity assessment products.

VII. Conformity assessment of electrical products and electronics

16. Conformity assessment of products of electrical engineering and radio electronics is carried out in the form of confirmation of compliance.

17. Upon confirmation of conformity of products of electrical engineering and radio electronics, applicants may be registered in the territory of a Member State in accordance with its legislation as a legal entity or individual as an individual entrepreneur, being manufacturers or importers (sellers) or persons authorized by the manufacturer.

18. Products of electrical engineering and radio electronics are subject to confirmation of conformity in the form of a declaration of conformity according to one of the following schemes:

a) for products manufactured in series, schemes 1d, 3d and 6d;

b) for a batch of products - schemes 2d and 4d.

19. When declaring the conformity of products of electrical engineering and radio electronics, the applicant may be:

a) for schemes 1d, 3d and 6d - the manufacturer (a person authorized by the manufacturer);

b) for schemes 2d and 4d - the manufacturer (person authorized by the manufacturer) or the importer (seller).

20. The choice of a scheme for declaring conformity of products of electrical engineering and radio electronics is carried out by the applicant.

21. The declaration of conformity of products of electrical engineering and radio electronics according to schemes 1e and 2e is carried out by the applicant on the basis of his own evidence. Tests of samples of electrical and radio-electronic products at the applicant's choice are carried out in the applicant's testing laboratory, or in an accredited testing laboratory (center) included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union (hereinafter referred to as the Unified Register), or in another testing laboratories.

The declaration of conformity of products of electrical engineering and electronics according to the 3d, 4d and 6d schemes is carried out by the applicant on the basis of his own evidence and evidence obtained with the participation of an accredited testing laboratory (center), included in the Unified Register.

22. When declaring the conformity of products of electrical engineering and radio electronics, the applicant:

a) generates and analyzes documents confirming the compliance of products with the requirements of this technical regulation, including:

technical conditions (if any);

operational documents;

protocol (protocols) of testing product samples and (or) component parts, materials, components of products for compliance with the requirements of this technical regulation and (or) other documents of the applicant's choice, which served as the basis for confirming compliance of products with the requirements of this technical regulation (if any) (scheme 1d, 2d, 3d, 4d and 6d);

supply agreement (contract) and shipping documentation (if available) (for a batch of products, a single product) (schemes 2d and 4d);

certificate for a quality management system (copy of certificate) (scheme 6d);

b) carries out the identification of products in order to assign them to the scope of this technical regulation;

c) ensures the implementation of production control and takes all necessary measures so that the production process of products ensures their compliance with the requirements of these technical regulations;

d) takes all necessary measures to ensure the stability of the functioning of the quality management system (Scheme 6e);

e) accepts the declaration of conformity, which is executed in accordance with the uniform form and rules approved by the Decision of the Board of the Eurasian Economic Commission of December 25, 2012 N 293;

f) apply a single sign of product circulation on the Union market after completion of the conformity confirmation procedure;

g) forms, after completion of the conformity confirmation procedure, a set of documents that includes the documents provided for by subparagraph "a" of this paragraph, and a declaration of conformity.

23. The declaration of conformity is subject to registration in the manner prescribed by the Decision of the Board of the Eurasian Economic Commission of April 9, 2013 N 76.

24. The validity of the declaration of conformity for products of electrical engineering and radio electronics, mass-produced, is not more than 5 years. For a batch of products of electrical engineering and electronics, the validity of the declaration of conformity is not established.

25. At the choice of the applicant, confirmation of conformity of products of electrical engineering and radio electronics in the form of a declaration of conformity can be replaced by confirmation of conformity in the form of certification according to one of the following schemes:

a) for products manufactured in series, schemes 1s, 2s and 6s;

b) for a batch of products - scheme 3c.

26. When certifying products of electrical engineering and radio electronics, the applicant may be:

a) for circuits 1s, 2s and 6s - the manufacturer (a person authorized by the manufacturer);

b) for scheme 3c - the manufacturer (person authorized by the manufacturer) or the importer (seller).

27. The choice of certification scheme for products of electrical engineering and electronics is carried out by the applicant.

28. When certifying products of electrical engineering and radio electronics, the applicant:

a) takes all necessary measures so that the production process of products is stable and ensures their compliance with the requirements of these technical regulations;

b) forms the following technical documentation:

technical conditions (if any);

operational documents;

supply agreement (contract) and shipping documentation (if available) (for a batch of products) (scheme 3c);

certificate for a quality management system (copy of certificate) (scheme 2c);

other documents of the applicant's choice, which served as the basis for confirming compliance of products with the requirements of this technical regulation (if any);

c) submits to the certification body included in the Unified Register an application for certification of products (with the technical documentation attached). The application shall contain information about the document for compliance with the requirements of which a quality management system is certified (scheme 2c), as well as about identifying signs of a batch of products and its product units (scheme 3c);

d) apply a single sign of product circulation on the Union market after completion of the conformity confirmation procedure;

e) in case of changes in the design of products or the technology of their production, which may affect the compliance of such products with the requirements of this technical regulation, notify the certification body in advance (Scheme 1c);

f) forms, after completion of the conformity confirmation procedure, a set of documents that includes the documents specified in subparagraph "b" of this paragraph, the test report (s), the results of the analysis of the production status (Scheme 1c) and the certificate of conformity.

29. When certifying products of electrical engineering and radio electronics, a certification body included in the Unified Register:

a) analyzes the technical documentation submitted by the applicant and informs the applicant of his decision (indicating the conditions for certification);

b) carries out the identification of product samples and their selection from the applicant for testing;

c) provides testing of product samples (batch of products (sample from the batch) (scheme 3c)) in an accredited testing laboratory (center) included in the Unified Register;

d) analyzes the state of production of the applicant, the results of which are documented in an act (Scheme 1c);

e) upon positive results of tests and analysis of the state of production, draws up a certificate of conformity in a single form approved by Decision of the Board of the Eurasian Economic Commission of December 25, 2012 N 293, and issues it to the applicant;

f) enter information on the certificate of conformity into a single register of issued certificates of conformity and registered declarations of conformity;

g) carry out inspection control in respect of certified products throughout the validity period of the certificate of conformity by testing samples of products in an accredited testing laboratory (center) included in the Unified Register and (or) analyzing the state of production (scheme 1c);

h) carries out inspection control in respect of certified products throughout the validity period of the certificate of conformity by testing samples of products in an accredited testing laboratory (center) included in the Unified Register and analyzing the results of inspection control of the certification body of the quality management system in relation to the certified management system quality (scheme 2c);

i) in case of positive results of the inspection control, confirms the validity of the certificate of conformity and makes an appropriate entry in the inspection certificate, in case of negative results of the inspection control takes a decision to suspend or revoke the validity of the certificate of conformity and brings the information about the decision made to the applicant (schemes 1c and 2c).

30. In the case of confirmation of conformity (declaration of conformity or certification) according to schemes providing for certification of a quality management system, certification of such a system is carried out by the certification body of the quality management system registered in the territory of a Member State in accordance with the laws of that state and accredited to Member State accreditation system.

31. The validity period of the certificate of conformity for products of electrical engineering and radio electronics, mass-produced, is not more than 5 years. For a batch of products of electrical and radio electronics, the validity period of the certificate of conformity is not established.

32. A set of documents generated after confirmation of conformity of products of electrical engineering and radio electronics is stored:

a) for products manufactured in series, - the applicant has not less than 10 years from the date of termination of the declaration of conformity or certificate of conformity;

b) for a batch of products - the applicant has not less than 10 years from the date of completion of the sale of a batch of products;

c) for the product - at the manufacturer (person authorized by the manufacturer) at least 10 years from the date of withdrawal from production (termination of production) of this product.

VIII. Marking with a single sign of product circulation on the Union market

33. A product of electrical engineering and radio electronics that meets the requirements of this technical regulation and has passed the conformity confirmation procedure in accordance with Section VII of this technical regulation shall be marked with a single sign of product circulation on the Union market.

34. Marking with a single sign of product circulation on the Union market is carried out before the release of an electrical and radio-electronic product into circulation on the Union market.

35. A single sign of circulation of products on the Union market is applied to each product of electrical engineering and radio electronics in any way that provides a clear and clear image throughout the life of the product, and is also given in the operating documents attached to it.

If it is impossible to apply a single sign of product circulation on the Union's market on an electrical and radio-electronic product, it is allowed to apply it only on the product's packaging and in the operating documents attached to it.

36. The product of electrical engineering and radio electronics is marked with a single sign of product circulation on the Union's market when it meets the requirements of all technical regulations of the Union (Customs Union), the effect of which applies to it.

Appendix N 1. The list of products of electrical engineering and electronics, which are subject to the technical regulation of the Eurasian Economic Union "On the restriction of the use of hazardous substances in electrical products and

.. Appendix N 1
to technical regulations
Eurasian Economic Union
"On limiting the use of hazardous
substances in electrical products
and radio electronics "(TR EAEU 037/2016)

The list of products of electrical engineering and radio electronics, which are subject to the technical regulation of the Eurasian Economic Union "On the restriction of the use of hazardous

substances in electrical products and radio electronics" (TR EAEU 037/2016)

1. Electrical apparatuses and household appliances:

- a) for the preparation and storage of food and the mechanization of kitchen work, as well as other kitchen equipment;
- b) for processing (washing, ironing, drying, cleaning) of linen, clothes and shoes;
- c) for cleaning and tidying rooms;
- d) to maintain and regulate the indoor microclimate;
- e) sanitary and hygienic;
- f) for hair, nails and skin care;
- g) for heating the body;
- h) vibration massage;
- i) gaming, sports and fitness equipment;
- j) audio and video equipment, television and radio broadcasting receivers;
- k) sewing and knitting;
- m) power supplies, chargers, voltage stabilizers;
- m) for gardening;
- o) for aquariums and garden ponds;
- n) electric pumps;
- p) electric and electronic watches;
- c) calculators;
- r) wiring accessories;
- y) extension cords.

2. Electronic computers and devices connected to them, including their combinations:

a) servers, system units of personal computers;

b) laptops;

c) tablet, handheld, palmtop and other small-sized computers;

d) keyboards, manipulators, trackers and other control and input devices (computer mice, joysticks, helmets, glasses);

e) removable storage devices;

e) monitors;

g) printers;

h) scanners;

i) speakers and headphones;

j) multimedia projectors;

k) readers of biometric information;

m) webcams;

m) modems;

o) uninterruptible power supply units.

3. Telecommunication facilities (terminal telecommunication devices):

a) landline and mobile phones;

b) pay phones;

c) fax machines;

d) telexes;

e) portable and portable radio stations;

e) radio frequency identification tags.

4. Copy machines and other electrical office (office) equipment.

5. The tool is electrified (cars manual and portable electric).
6. Light sources and lighting equipment, including equipment built into furniture.
7. Electromusical instruments.
8. Game and trading machines.
9. Cash registers, ticket machines, ID card readers, ATMs, information kiosks.
10. Cables, wires and cords intended for use at a rated voltage of not more than 500 V AC and (or) DC, with the exception of fiber optic cables.
11. Automatic switches and residual current circuit breakers.
12. Fire, security and fire alarm detectors.

Appendix N 2. The list of hazardous substances, the content of which in products of electrical engineering and radio electronics in excess of the permissible concentration in homogeneous (homogeneous) materials used in the design of electrical products and ...

Appendix N 2
to technical regulations
Eurasian Economic Union
"On limiting the use of hazardous
substances in electrical products
and radio electronics "(TR EAEU 037/2016)

The list of hazardous substances, the content of which in electrical and radio electronic products exceeding the permissible concentration in homogeneous (homogeneous) materials used in the design of electrical and radio electronic products, which are subject to the technical regulation of the Eurasian Economic Union "On

the restriction of the use of hazardous substances in electrical and electronic products "(TR EAEU 037/2016), prohibited

Name of hazardous substance	Permissible concentration of a hazardous substance in homogeneous (homogeneous) materials in weight percent, not more than
1. Lead	0,1
2. Mercury	0,1
3. Cadmium	0,01
4. Hexavalent chromium	0,1
5. Polybrominated biphenyls	0,1
6. Polybrominated diphenylethers	0,1

Appendix N 3. Special requirements to limit the use of hazardous substances in electrical and radio electronics products

Appendix N 3
to technical regulations
Eurasian Economic Union
"On limiting the use of hazardous
substances in electrical products
and radio electronics "(TR EAEU 037/2016)

Special requirement	Duration of special requirement
1. Mercury in compact fluorescent lamps with 1 base, for 1 lamp no more:	
2.5 mg for general lighting less than 30 W	not limited
3.5 mg for general lighting lamps from 30 W (inclusive) to 50 W	not limited
5 mg for general lighting lamps with power from 50 W (inclusive) to 150 W	not limited
15 mg for general lighting lamps with a power of at least 150 W	not limited
7 mg for general lighting lamps with an annular or square tube bulb with a diameter of not more than 17 mm	not limited

5 mg for lamps intended for special purposes (except general lighting)	not limited
3.5 mg for general lighting lamps with a power of less than 30 W with a service life of at least 20,000 h	within 3 years from the date of entry into force of the technical regulation of the Eurasian Economic Union "On the restriction of the use of hazardous substances in products of electrical engineering and radio electronics" (EAEU TR /) (hereinafter - the technical regulation) *

* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

2. Mercury in linear (tubular rectilinear) fluorescent lamps with 2 caps for general lighting, for 1 lamp no more:

4 mg for lamps with a three-band phosphor with a tube diameter of less than 9 mm	not limited
3 mg for lamps with a three-band phosphor with a tube diameter of at least 9 mm and not more than 17 mm	not limited
3.5 mg for lamps with a three-band phosphor phosphor and a tube diameter of at least 17 mm	not limited
5 mg for lamps with a three-band phosphor phosphor and a standard service life of at least 25,000 hours	not limited

3. Mercury in other fluorescent lamps, per 1 lamp, not more than:

10 mg for linear lamps with a halophosphate phosphor and a tube with a diameter of more than 28 mm	within 2 years from the date of entry into force of the technical regulation *
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* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

15 mg for non-linear lamps with halophosphate phosphor	within 3 years from the date of entry into force of the technical regulation *
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* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

15 mg for non-linear lamps with a halophosphate phosphor and a bulb with a diameter of more than 17 mm	not limited
15 mg for lamps intended for general lighting and special purposes (e.g. induction lamps)	not limited
10 mg for linear lamps with halophosphate phosphor and tube with a diameter of less than 28 mm	not limited
4. Mercury in fluorescent lamps with a cold cathode and fluorescent lamps with external electrodes, per 1 lamp, not more than:	
3.5 mg for lamps no longer than 500 mm	not limited
5 mg for lamps longer than 500 mm, but not more than 1500 mm	not limited
13 mg for lamps longer than 1500 mm	not limited
5. Mercury in low-pressure discharge lamps - not more than 15 mg per 1 lamp	not limited
6. Mercury in high-pressure sodium lamps for general lighting with a color rendering index Ra of more than 60, for 1 lamp no more:	
not limited	not limited
not limited	not limited
7. Mercury in other high pressure sodium lamps for general lighting:	
not limited	not limited
not limited	not limited
not limited	not limited
8. Mercury in high-pressure mercury lamps - not limited	within 2 years from the date of entry into force of the technical regulation *

* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

9. Mercury in metal halide lamps - not limited	not limited
10. Mercury in special discharge lamps for luminous signs and decorative illumination of buildings:	
within 3 years from the date of entry into force of the technical regulation *	в течение 3 лет с даты вступления в силу технического регламента*

* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

15 mg per pair of electrodes and 0.24 mg per centimeter of bulb length, but not more than 80 mg for other lamps intended for indoor use	within 3 years from the date of entry into force of the technical regulation *
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* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

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| 11. Mercury in other gas discharge lamps intended for special purposes (in addition to general lighting) is not limited | not limited |
| 12. Lead in glass cathode ray tubes - not limited | not limited |
| 13. Lead in the glass of flasks (tubes) of fluorescent lamps - not more than 0.2% | not limited |
| 14. Lead content in steel, including galvanized steel - not more than 0.35% | not limited |
| 15. Lead content in aluminum alloys - not more than 0.4% | not limited |
| 16. Lead content in brass and other copper-based alloys - not more than 4% | not limited |
| 17. Lead in refractory (melting point more than 300 ° C) solders - not limited | not limited |
| 18. Lead in solders used in the manufacture of servers, storage systems and transmission of information of telecommunication networks - is not limited | not limited |
| 19. Lead in electrical and electronic components, except for insulating ceramic of capacitors (for example, in piezoelectric devices, in compounds of ceramic or glass substrates) - is not limited | not limited |
| 20. Lead in insulating ceramic capacitors with a rated voltage of less than 125 V AC and 250 V DC - not limited | not limited |
| 21. Lead in the ceramic materials that create the piezoelectric effect of capacitors of integrated circuits and discrete semiconductor devices - is not limited | within 2 years from the date of entry into force of the technical regulation * |

* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

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| 22. Cadmium and its compounds in electrical contacts - not limited | not limited |
| 23. Hexavalent chromium as an anticorrosive additive in heat transfer systems made of carbon steel in absorption refrigerators - not more than 0.75% by weight of the cooling solution | not limited |
| 24. Lead in housings and bushings of sliding bearings designed for refrigerant-containing compressors for ventilation and air conditioning systems - not limited | not limited |

25. Lead in translucent colorless glasses and lenses of optical systems - not limited	not limited
26. Lead and cadmium in glass filters and standard specimens of reflectivity - not limited	not limited
27. Lead in solders to create a stable electrical connection between the housing (crystal holder) and the semiconductor chip integrated circuit with ball leads - is not limited	not limited
28. Lead halogen in high intensity discharge lamps for industrial applications and copy machines - not limited	not limited
29. Lead as an activator of fluorescent compositions of gas discharge lamps for tanning salons - is not limited	not limited
30. Lead and cadmium in printing inks for application to borosilicate and soda-lime glasses - not limited	not limited
31. Lead in solders for multilayer disk and planar matrix ceramic capacitors with metallized holes - not limited	not limited
32. Lead oxide in SED displays (displays with electronic emission due to surface conductivity) - not limited	not limited
33. Lead in solders used in powerful loudspeakers (speakers designed for long-term operation at a sound pressure level of at least 125 dB SPL) - not limited	not limited
34. Lead compounds in crystal glass - not limited	not limited
35. Cadmium alloys as solder for electromechanical compounds in the voice coil of loudspeakers with a sound pressure level of at least 100 dBA - not limited	not limited
36. Lead in solders for mounting flat fluorescent tubes in liquid crystal displays - not limited	not limited
37. Lead oxide in sealing compositions of argon and krypton laser tubes - not limited	not limited
38. Lead in solders for soldering copper wires of power transformers with a thickness of not more than 100 microns - not limited	not limited
39. Lead in ceramic tuning potentiometers - not limited	not limited
40. Mercury to stabilize cathodic sputtering in plasma displays - not more than 30 mg per 1 plasma panel	within 2 years from the date of entry into force of the technical regulation *
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* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.	
41. Lead in cladding layers of high voltage diodes in cases based on glass ceramics and beryllium oxide is not limited	not limited
42. Cadmium and cadmium oxide in thin film layers on beryllium oxide with aluminum - not limited	not limited

43. Cadmium in the light-converting elements of solid-state LEDs for lighting and display systems - not more than 10 mg per 1 mm of light-emitting surface

within 2 years from the date of entry into force of the technical regulation *

* Validity period means that from the moment of the specified date, the release of products of electrical engineering and radio electronics is possible only if the requirements for the content of hazardous substances established in paragraph 7 of the technical regulation are observed.

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