SLOVENSKI STANDARD
SIST EN 71-1:2026

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Varnost igrač - 1. del: Mehanske in fizikalne lastnosti

Safety of toys - Part 1: Mechanical and physical properties

Sicherheit von Spielzeug - Teil 1: Mechanische und physikalische Eigenschaften

Sécurité des jouets - Partie 1: Propriétés mécaniques et physiques

Ta slovenski standard je istoveten z: **EN 71-1:2026**

ICS:

97.200.50	Igrače	Toys

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EUROPEAN STANDARD
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English Version

Safety of toys - Part 1: Mechanical and physical properties

Sécurité des jouets - Partie 1: Propriétés mécaniques et physiques

Sicherheit von Spielzeug - Teil 1: Mechanische und physikalische Eigenschaften

This European Standard was approved by CEN on 14 December 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 71-1:2026) has been prepared by Technical Committee CEN/TC 52 “Safety of toys”, the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2026, and conflicting national standards shall be withdrawn at the latest by July 2027.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 71-1:2014+A1:2018.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Additional information on the background and rationale for various requirements are given in Annex A.

This document constitutes the first part of the EN 71 series of standards on safety of toys.

EN 71, *Safety of toys*, consists of the following parts:

— *Part 1: Mechanical and physical properties* (this document);

— *Part 2: Flammability*;

— *Part 3: Migration of certain elements*;

— *Part 4: Experimental sets for chemistry and related activities*;

— *Part 5: Chemical toys (sets) other than experimental sets*;

— *Part 7: Finger paints — Requirements and test methods*;

— *Part 8: Activity toys for domestic use*;

— *Part 10: Organic chemical compounds — Sample preparation and extraction*;

— *Part 11: Organic chemical compounds — Methods of analysis*;

— *Part 12: N-Nitrosamines and N-nitrosatable substances*;

— *Part 13: Olfactory board games, cosmetic kits and gustative games*;

— *Part 14: Trampolines for domestic use*;

— *Part 15: Formamide in foam toy materials (content)*;

— *Part 16: Certain chlorinated phosphorus flame retardants (TCEP, TCPP, TDCP) in toy materials*;

— *Part 17: Certain isothiazolinones (MIT, CIT, BIT) in aqueous toy materials*;

— *Part 18: Phenol in aqueous (content) and polymeric (migration) toy materials*;

— *Part 19: Migration of bisphenol A from toy materials*;

— *Part 20: Microbiological safety of toys containing accessible aqueous media*.

It is up to the user of the standard to determine whether or not a toy is included in the scope of several of the above parts of the EN 71 series, and to apply each applicable standard accordingly. Normative references from one part of the EN 71 series to another, are therefore normally not provided in the individual parts.

NOTE 1 In addition to the above parts of the EN 71 series, the following deliverables have been published:

— CEN/TR 15071, *Safety of toys — National translations of warnings and instructions for use in the EN 71 series*;

— CEN/TR 15371 (all parts), *Safety of toys — Interpretations*;

— CEN/TR 16918, *Safety of toys — Children's mouthing behaviour in contact with toys*;

— CEN/TR 17695, *Safety of toys — Mechanical and physical properties — Guidance on categorisation of projectile toys within EN 71-1*;

— CEN/TS 17973, *Safety of toys — Categorization of slime type materials*;

— CEN/TR 18217, *Safety of toys — Migration of certain elements from polymers*;

— CEN/TR 18240, *Safety of toys — Mechanical and physical properties — Guidance on the requirements for food-imitating toys in EN 71-1*; and

— CEN ISO/TR 8124-8, *Safety of toys — Part 8: Age determination — First age grade for the appropriate play of toys*.

NOTE 2 Words in *italics* (apart from document titles) are defined in Clause 3 (Terms and definitions).

The following significant editorial and technical changes have been implemented in this new edition:

Clause/Paragraph/ Table/Figure	Change
3.11	Update and clarification of the definition of "close-to-the-ear toy".
3.28	New definition of the term "flash".
3.39	Updated definition of the term "large and bulky toy".
3.40	New definition of the term "latex balloon".
	Deleted the definition of maximum saddle height (was 3.44).
	Deleted the definition of plastic sheeting (was 3.52).
3.57	New definition of the term "reference box".
3.60	New definition of the term "resilient material".
3.62	New subclause heading for definitions related to ride-on toys.
3.63	Update and clarification of the definition of "soft-filled toy".

Clause/Paragraph/ Table/Figure	Change
3.78	New definition of the term “toy chest”.
4.6	Revised the requirements for expanding materials.
4.7	Added an exemption for trampolines covered by EN 71-14.
4.8	Added an exemption for trampolines covered by EN 71-14.
4.9	Added clarification about protrusions addressed by the requirements. Added an exemption for trampolines covered by EN 71-14.
4.10.4	Added an exemption for trampolines covered by EN 71-14.
4.14.1	Updated and clarified the requirement with respect to ventilation, particularly when multiple openings are used. Added a reference to a new test method for assessing groups of openings. Added a reference to a new test method for assessing the escape force.
4.14.2	Updated and clarified the requirement with respect to ventilation, particularly when multiple openings are used. Added a reference to a new test method for assessing groups of openings. The figure was updated.
4.15	Update and reformat of the requirements for toys intended to bear the mass of a child. All requirements for toys intended to bear the mass of a child have been consolidated under this clause.
4.17.3.2	Updated the note to clarify how leading edges on projectiles can be determined.
4.17.4.3	Clarified that the reference to 4.17.3.2 does not apply.
4.17.4.4	Clarified that the reference to 4.17.3.2 does not apply.
4.18	Clarified which provisions of the referenced standard are excluded.
4.23.3	Clarified the exemption also applies to magnetic components.
4.24	Clarified that yo-yo balls comply with the requirement if the tether breaks during the testing.
4.28	Added a new requirement for food-imitating toys.
5.1	Added an exemption from the requirements for sand in some circumstances and confirmed that inflatable toys are assessed inflated or deflated.
5.1 a)	Clarified that the test for paperboard components applies to components which are individually separate and distinct and that it does not apply to parts of paperboard torn or broken off of larger paperboard components.
5.1 e)	Clarified that the requirement also applies to glued wooden components.
5.2 b)	Clarified that holes which permit small parts to pass through are not excluded from the requirement.
5.4.9.1	Clarified that the requirement applies to toys intended to be strung across a cradle, cot or perambulator by means of strings, cords, elastics or straps.
5.8	Clarified that the requirements do not apply to elements intended to fix toys to a crib provided the instructions for use indicate the fixings are to be removed before giving the item to a child.

Clause/Paragraph/ Table/Figure	Change
5.14	Added a requirement to ensure it is possible to join the parts of cords after they have been separated in line with 5.4.
6	Clarified that the packaging requirements apply regardless of whether the toy is marked for adult assembly.
7.1	Further clarified that although the subclauses of 7 each include the word warning, it is permissible to replace several uses of the word warning with a single use of the word warning.
7.2	Clarified that where the symbol is used it is to be preceded by the word “warning”.
7.7	Added an example of a toy where it would be considered unreasonable to be able aim it at the face.
7.14	All warning requirements related to toys intended to bear the mass of a child have been consolidated under 7.14.
7.14.2	Added a new option of using graphical symbols for indicating that protective equipment shall be worn.
7.14.10	Added a new requirement that toys intended to bear the mass of a child should come with appropriate maintenance instructions for use.
8	Clarified the use of the terms “load” and “mass” throughout the clause.
8.4.2.1	Deleted incorrect references to suction cups. Clarified that the tension force is to be applied in line with the major axis of the component under test or at right angles to the edge of the component under test.
8.4.2.5	Clarified that the perpendicular tension test should be carried out in the most onerous direction.
8.4.2.6	Clarified that tension force should be applied to the blade and its connecting parts only and not to parts such as the centre hub or motor spindle.
8.5	Added an allowance to drop in random orientations when the most onerous drop orientation cannot be located. Updated the references to standards.
8.7	Clarified the position of the part under test.
8.8	Clarified that the disc through which the compression force is applied, is to be applied flat, to the surface of the toy.
8.9	Changed the temperature of the water used in the soaking test to align with other international standards and added tolerances.
8.11.2.2	Updated the normative reference.
8.13	Clarified that the wire should be bent at the clamping point rather than allowing flexibility of the wire. Clarified what is meant by one test cycle.
8.14	Revised the test method for expanding materials.
8.16	Clarified the test method for the geometric shape of certain toys and divided into subclauses for templates A and B.
8.21	All test methods related to toys intended to bear the mass of a child have been consolidated under 8.21.

Clause/Paragraph/ Table/Figure	Change
8.21.3	A revised stability requirement has been included to address fore and aft stability as well as sideways stability.
8.21.4	A new test method for handlebar impact has been introduced.
8.21.5	A new test method addressing brake performance has been introduced.
8.21.7	Revised forces and an updated method have been introduced in the test method for the strength of toy scooter steering tubes.
8.21.8	A new method to assess the security of handlebar stems is introduced.
8.21.9	A new method to test the strength of stabilizers is introduced.
8.21.10	A new method to test the security of seat posts has been introduced.
8.23	The test methods related to projectile speed and energy have been updated and clarified.
8.25.1.5	Removed the referenced standard for the reference box in favour of the newly defined term.
8.30	Added a requirement for toys that contain one magnet only and no metal mating component
8.33.2	Clarified that for yo-yo balls where the tether breaks during the test are considered to comply with the requirement
8.41	The previous 8.4.2.5 (wall impact test) was moved to this new clause.
8.42	Introduced a new method to test the escape force of toys that a child can enter.
8.43	Introduced a new test method to check when combinations of ventilation openings can be considered a single group.
Annex A	Several sections have been updated.
A.2	Updated for clarity and added a new section on fireworks.
A.3	Deleted superfluous lines related to cleanliness and infestation.
A.7	Updated to reflect the new requirements. Flowchart was added.
A.10	Added explanation of the risks related to spokes on umbrellas.
A.13	Clarified text related to hinge lines.
A.16	Added text related to the warning requirement for balloons.
A.18	Clarified text related to the play value of toy chests.
A.19	Added further explanation of the relationship with PPE requirements
A.20	Added explanation of the new requirements. Added new table. Added new figures.
A.22	Added a new text related to the requirements for expanding gel projectiles.
A.23	Updated references to standards.
A.26	Added further information related to small pieces of paper/paperboard. Updated the figure.

Clause/Paragraph/ Table/Figure	Change
A.29	Clarified the explanation of requirements related to toys attached to a cradle, cot or perambulator.
A.31	Clarified how the shape and size requirements apply to certain toys for children who are too young to sit up unaided.
A.38	Clarified certain points about the application of the impact test
A.41	Clarified the explanation of the test method.
A.42	Removed duplicated text and added a simple explanation of the test method.
A.59	Added new clause to explain the new food imitation requirements (4.28).

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document aims at reducing as far as possible those hazards which are not evident to users; it does not cover inherent hazards (e.g. instability of two-wheeled scooters, sharp needles in a sewing kit, etc.) that are obvious to children or the persons in charge of them. Assuming that the toys are used in the intended manner they should not present any further hazard to children for whom they are intended. Allowance should also be made for foreseeable use, bearing in mind the behaviour of children who do not generally share the same degree of care as the average adult user.

As a general rule, toys are designed and manufactured for particular ages of children. Their characteristics are related to the age and stage of development of the children, and their use presupposes certain aptitudes.

Accidents are frequently due to a toy either being given to a child for whom it is not intended or being used for a purpose other than that for which it was designed. Great care should therefore be taken when choosing a toy or game; account should be taken of the mental and physical development of the child who will be using it.

The requirements of this document do not release parents or carers from their responsibility of watching over the child while he or she is playing.