

**Mänguasjade ohutus. Osa 1: Mehaanilised ja
füüsikalised omadused KONSOLIDEERITUD TEKST**

Safety of toys - Part 1: Mechanical and physical properties
CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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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

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Foreword

This document (EN 71-1:2005+A9:2009) 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of an identical text or by endorsement, at the latest by January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

This document includes Amendment 1, approved by CEN on 2007-01-10, Amendment 3 approved by CEN on 2006-09-07, Amendment 4 approved by CEN on 2007-03-13, Amendment 5 approved by CEN on 2008-04-18, Amendment 6 approved by CEN on 2008-02-05, Amendment 7 approved by CEN on 2009-04-30, Amendment 8 approved by CEN on 2009-03-01, Amendment 9 approved by CEN on 2009-05-23 and the Corrigendum issued on 2006-02-01.

This document supersedes A9 EN 71-1:2005+A8:2009 A9.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1, A3 A3, A4 A4, A5 A5, A6 A6, A7 A7, A8 A8 and A9 A9.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags AC AC.

A4 *deleted text* A4

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

This European Standard constitutes the first part of the European Standard on safety of toys.

This European Standard for safety of toys consists of the following parts:

- Part 1: *Mechanical and physical properties*
- 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: *Swings, slides and similar activity toys for indoor and outdoor family domestic use*
- Part 9: *Organic chemical compounds – Requirements*
- Part 10: *Organic chemical compounds – Sample preparation and extraction*
- Part 11: *Organic chemical compounds – Methods of analysis*

NOTE 1 In addition to the above parts of EN 71, the following guidance documents have been published: CEN Report, CR 14379:2002, *Classification of toys - Guidelines*, CEN Technical Report CEN/TR 15071:2005, *Safety of toys - National translations of warnings and instructions for use in EN 71* and CEN Technical Report CEN/TR 15371:2009, *Safety of toys – Replies to requests for interpretation of EN 71-1, EN 71-2, and EN 71-8* A4.

NOTE 2 Different legal requirements may exist in non-EU countries.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia,

Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

The European Standards aim at reducing as far as possible those risks which are not evident to users; they do not cover inherent dangers (e.g. instability of 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 manner for which they are intended, they should not present any further risk to children for whom they are intended. Allowance should also be made for normal or foreseeable use, bearing in mind the normal 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 European Standard do not release parents or carers from their responsibility of watching over the child while he or she is playing.

1 Scope (see A.2)

This European Standard specifies requirements and methods of tests for mechanical and physical properties of toys.

This European Standard applies to toys for children, toys being any product or material designed or clearly intended for use in play by children of less than 14 years. It refers to new toys taking into account the period of foreseeable and normal use, and that the toys are used as intended or in a foreseeable way, bearing in mind the normal behaviour of children.

It includes specific requirements for toys intended for children under 36 months and for children who are too young to sit up unaided. For the purpose of this European Standard, *soft-filled* toys with simple features intended for holding and cuddling are considered as toys intended for children under 36 months.

This European Standard also specifies requirements for *packaging*, marking and labelling.

This European Standard does not cover musical instruments, sports equipment or similar items but does include their toy counterparts.

This European Standard does not cover electrical safety aspects of toys. These are covered by  EN 62115, Electric toys - Safety .

Furthermore, it does not cover the following items which, for the purpose of this European Standard, are not considered as toys:

- Christmas decorations (see A.2);
- detailed scale models for adult collectors (see A.2);
- equipment intended to be used collectively in playgrounds;
- sports equipment;
- aquatic equipment intended to be used in deep water;
- folk dolls and decorative dolls and other similar articles for adult collectors;
- "professional" toys installed in public places (shopping centres, stations etc.) (see A.2);
- puzzles with more than 500 pieces or without picture, intended for specialists;
- air guns and air pistols (see A.2);
- fireworks, including percussion caps except percussion caps specifically designed for toys;
- slings and catapults (see A.2);
- sets of darts with metallic points;
- electric ovens, irons or other functional products operated at a nominal voltage exceeding 24 V;
- products containing heating elements intended for use under the supervision of an adult in a teaching context;
- vehicles with combustion engines (see A.2);
- toy steam engines;
- bicycles designed for sport or for travel on the public highway;
- video toys that can be connected to a video screen, operated at a nominal voltage exceeding 24V;
- babies' dummies (soothers);
- faithful reproductions of real fire arms;
- fashion jewellery for children (see A.2).

Also, for the purpose of this European Standard, the following items are not considered as toys:

- flotation aids such as arm bands and swim seats (see A.23);
- swimming goggles, sunglasses and other eye protectors as well as bicycle and skateboard helmets (see A.19);
- items that are propelled into free flight by a child releasing an elastic band (e.g. aeroplanes and rockets). These are considered as catapults (see 11th indent above);
- bows for archery with an overall relaxed length exceeding 120 cm.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Ⓐ deleted text Ⓐ

EN 71-8, *Safety of toys — Part 8: Swings, slides and similar activity toys for indoor and outdoor family domestic use*

EN 60318-1, *Electroacoustics — Simulators of human head and ear — Part 1: Ear simulator for the calibration of supra-aural earphones* (IEC 60318-1:1998)

EN ISO 868, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness)* (ISO 868:2003)

EN ISO 3746:1995, *Acoustics — Determination of sound power levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane* (ISO 3746:1995)

EN ISO 4287, *Geometrical product specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters* (ISO 4287:1997)

EN ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)* Ⓐ (ISO 6508-1:2005) Ⓐ

EN ISO 11201, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Engineering method in an essentially free field over a reflecting plane* (ISO 11201:1995)

EN ISO 11202, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Survey method in situ* (ISO 11202:1995)

EN ISO 11204, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Method requiring environmental corrections* (ISO 11204:1995)

ISO 4593, *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*

ISO 7619-2, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 2: IRHD pocket meter method*

Ⓐ IEC 60318-5, *Electroacoustics — Simulators of human head and ear — Part 5: 2 cm³ coupler for the measurement of hearing aids and earphones coupled to the ear by means of ear inserts* Ⓐ