MÄNGUASJADE OHUTUS. OSA 4: KATSEKOMPLEKTID KEEMIAKATSETEKS JA SAMALAADSEKS TEGEVUSEKS

Safety of toys - Part 4: Experimental sets for chemistry and related activities



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

	This Estonian standard EVS-EN 71-4:2020 consists of the English text of the European standard EN 71-4:2020.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.12.2020.	Date of Availability of the European standard is 23.12.2020.
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English Version

Safety of toys - Part 4: Experimental sets for chemistry and related activities

Sécurité des jouets - Partie 4 : Coffrets d'expériences chimiques et d'activités connexes

Sicherheit von Spielzeug - Teil 4: Experimentierkästen für chemische und ähnliche Versuche

This European Standard was approved by CEN on 11 October 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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 71-4:2020) 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of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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 71-4:2013.

The significant changes from the previous edition of this document are detailed in Annex C.

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

This document constitutes the fourth 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
- Part 2: Flammability
- Part 3: Migration of certain elements
- Part 4: Experimental sets for chemistry and related activities (the present document)
- 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 9: Organic chemical compounds Requirements
- 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

NOTE 1 In addition to the above parts of EN 71, the following guidance documents 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, and
- CEN ISO/TR 8124-8, Safety of toys Part 8: Age determination guidelines.

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

This document 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 2009/48/EC.

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

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, et dhua. mania, . Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document is intended to reduce the risks and health hazards to a child when *experimental sets* involving chemical experiments are used as intended or in a foreseeable way, bearing in mind the behaviour of children.

During use of these *experimental sets*, the hazards should be kept to a minimum by the provision of appropriate information to make the experiments safe and controllable. Therefore, this document specifies warning phrases and instructions for use for *experimental sets*.

As a general rule, *experimental sets* 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. Age requirements are therefore given.

The requirements of this document do not release parents or carers from their responsibility of watching over the child while he or she is carrying out experiments. On the contrary, the use of these 15 a Dreview Ocher alega of the sets requires close supervision by adults.

1 Scope

This document specifies requirements for the maximum amount, and in some cases, the maximum concentration of certain substances and mixtures used in *experimental sets* for chemistry and related activities.

These substances and mixtures are:

- those classified as hazardous by the EC-legislation applying to hazardous substances and hazardous mixtures [1];
- substances and mixtures which in excessive amounts could harm the health of the children using them and which are not classified as hazardous by the above-mentioned legislation; and
- any other chemical substance(s) and mixture(s) delivered with the *experimental set*.

This document applies to *experimental sets* for chemistry and related activities including *crystal growing sets, carbon dioxide generating experimental sets* and *supplementary sets*. It also covers sets for chemical experiments within the fields of mineralogy, biology, physics, microscopy and environmental science whenever they contain one or more chemical substances and/or mixtures which are classified as hazardous according to Regulation (EC) No. 1272/2008 [1].

This document also specifies requirements for marking, a contents list, instructions for use, eye protection and for the equipment intended for carrying out the experiments.

This document does not apply to combined sets, e.g. a combination of a *chemistry set* and a *crystal growing set*. It also does not apply to toys that are covered by EN 71-13 (e.g. *cosmetic kits*). Requirements for certain other *chemical toys* are given in EN 71-5.

NOTE The terms "substance" and "preparation", are used in the "REACH Regulation", Regulation (EC) No. 1907/2006 [2]. According to the Globally Harmonized System (GHS) of classification and labelling of chemicals, which in the European Union has been enacted by Regulation (EC) No. 1272/2008 (classification, labelling and packaging of substances and mixtures) [1], the timetable for the introduction of GHS is followed. The words "preparation" and "mixture" are considered synonymous; both are a mixture or solution of substances that do not react with each other. The old term "preparation" will be replaced by the new term "mixture" in due course. In this document, only the term "mixture" is used.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 71-1:2014+A1:2018, Safety of toys - Part 1: Mechanical and physical properties

EN 71-5:2015, Safety of toys - Part 5: Chemical toys (sets) other than experimental sets

EN 862:2016, Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products

EN ISO 8317:2015, Child-resistant packaging - Requirements and testing procedures for reclosable packages (ISO 8317:2015)