



**SLOVENSKI STANDARD**  
**SIST EN 71-5:1995/A2:2009**  
**01-november-2009**

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Safety of toys - Part 5: Chemical toys (sets) other than experimental sets - Amendment  
A2

Sicherheit von Spielzeug - Chemisches Spielzeug (Sets) ausgenommen  
Experimentierkästen

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Sécurité des jouets - Partie 5: Jeux chimiques (coffrets) autres que les coffrets  
d'expériences chimiques

[SIST EN 71-5:1995/A2:2009](#)

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**Ta slovenski standard je istoveten z: EN 71-5:1993/A2:2009**

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**ICS:**

97.200.50      Q!æ^      Toys

**SIST EN 71-5:1995/A2:2009**      **en,fr,de**

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EUROPEAN STANDARD

EN 71-5:1993/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2009

ICS 97.200.50

English Version

## Safety of toys - Part 5: Chemical toys (sets) other than experimental sets

Sécurité des jouets - Partie 5: Jeux chimiques (coffrets)  
autres que les coffrets d'expériences chimiques

Sicherheit von Spielzeug - Teil 5: Chemisches Spielzeug  
(Sets) ausgenommen Experimentierkästen

This amendment A2 modifies the European Standard EN 71-5:1993; it was approved by CEN on 13 June 2009.

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

This amendment 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 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

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## Foreword

This document (EN 71-5:1993/A2:2009) has been prepared by Technical Committee CEN/TC 52 “Safety of toys”, the secretariat of which is held by DS.

This Amendment to the European Standard EN 71-5:1993 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.

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

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 EC Directive(s).

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

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 the United Kingdom.

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**EN 71-5:1993/A2:2009 (E)****1 Modification to the "Introduction"**

Add the following 7<sup>th</sup> paragraph:

"After implementing the test methods some modifications to the standard are being brought forward:

- limits for toluene, xylenes and benzene in oven-hardening plasticized PVC modelling clay sets and plastic moulding sets;
- exclusion of teratogenic substances;
- updating the references to EU directives with subsequent modifications in the requirements."

**2 Modification to Clause 1 "Scope"**

Replace the 2<sup>nd</sup> sentence with the following:

"These substances and materials are:

- those classified as dangerous by the Directives on dangerous substances [1] and dangerous preparations [2];
- substances and preparations which in excessive amounts may harm the health of the children using them and which are not classified by the above mentioned Directives;
- any other chemical substance or preparation delivered with the toy.

NOTE The terms "substance" and "preparation" as used in directives 67/548/EEC [1] and 1999/45/EC [2] are also used in the "REACH Regulation" Regulation (EC) No. 1907/2006 [3]. This latter regulation requires that account be taken of the emerging international standards in the regulation of chemicals such as the Globally Harmonised System (GHS) of classification and labelling of chemicals. The EU has now proposed a timetable for the introduction of GHS and it is expected that the above two mentioned directives will be repealed on 1 June 2015.

In the GHS regulation the term 'mixtures' rather than 'preparation' is used. Preparations and mixtures should be considered synonymous; both are mixtures or solutions of substances that do not react with each other."

**3 Modifications to Clause 2 "Normative references"**

Add the following reference:

"EN 71-3:1994, *Safety of toys — Part 3: Migration of certain elements*".

Delete the following references:

"EN 71-3 Safety of toys – Part 3: Migration of certain elements",

and: "

- *European Council Directive 64/54/EEC*
- *European Council Directive 67/548/EEC*
- *European Council Directive 76/768/EEC*

- European Council Directive 78/142/EEC
- European Council Directive 88/379/EEC
- European Council directive 90/128/EEC
- European Council directive 91/442/EEC".

Delete the footnotes to text 1 to 7.

#### 4 Modification to 6.1, Table 2

Replace Table 2 including its title with the following: "

**Table 2a — Plasticizers in oven-hardening plasticized PVC modelling clay sets**

Chemical substance	CAS-Number
Adipic acid polyesters	—
Alkylsulfonic acid esters (C <sub>12</sub> to C <sub>20</sub> ) of phenol	—
Di-isononyl cyclohexane-1,2-dicarboxylate (DINCH)	166412-78-8
Phthalic acid esters with straight-chain aliphatic (C <sub>6</sub> upwards except C <sub>8</sub> ) alcohols and mixtures of these esters	—
Tributyl acetylcitrate	77-90-7
Tris(2-ethylhexyl) acetylcitrate	144-15-0

#### 5 Modification to 6.1

Replace the last sentence with the following:

"The vinyl chloride monomer content shall be below 1 mg/kg (see [4])."

Add the subsequent text:

"During heating of these materials at the maximum permitted temperature and duration, the limits given in Table 2.b shall not be exceeded for the emission of the listed toxic substances when tested according to 12.4.

**Table 2b — Limits for the emission of substances from oven-hardening plasticized PVC modelling clay sets and plastic moulding sets during heating**

Substance	Limit (mg/kg)
Benzene	5
Toluene	15
Xylenes	25

**EN 71-5:1993/A2:2009 (E)****6 Modification to 7.2**

*Replace the 1<sup>st</sup> paragraph with the following:*

"Substances classified as dangerous substances (see [1]) shall not be used in embedding sets."

*Replace the 3<sup>rd</sup> paragraph with the following:*

"Only preservatives permitted in foodstuffs (see [5]) and/or cosmetics, except those preservatives which are only allowed in cosmetic products that are rinsed-off after use, (see [6]) shall be used."

**7 Modification to 7.2.1**

*Replace the text of 7.2.1 with the following:*

"The name(s) of any preservative(s) used shall be indicated on the outer packaging."

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## 8 Modification to 8.1 Table 4

Replace Table 4 with the following: "

**Table 4 — Maximum amounts of chemical substances**

Substance	Max. amount per set	Classification according to [1]	CAS number
7 % (V/V) Acetic acid	100 ml	Xi	64-19-7
Ammonium thiosulfate	4 x 75 g	-	7783-18-8
Ascorbic acid	4 x 10 g	-	50-81-7
Citric acid <sup>a</sup>	5 g	Xi	77-92-9
Disodium disulfite	4 x 10 g	Xn, Xi	7681-57-4
N-(4-Hydroxyphenyl)-aminoacetic acid	4 x 5 g	-	2298-36-4
N-Methyl-p-amino-phenol and its salts	4 x 5 g	Xn, N	55-55-0
1-Phenylpyrazolidin-3-one	4 x 1 g	Xn, N	92-43-3
Potassium bromide <sup>a</sup>	4 x 0,5 g	Xi	7758-02-3
Sodium carbonate	4 x 20 g	Xi	497-19-8
Sodium sulfite	4 x 20 g	-	7757-83-7
Sodium thiosulfate	4 x 75 g	-	7772-98-7
NOTE The maximum amounts specified refer to anhydrous chemicals. Equivalent amounts of the hydrated chemicals or their salts (where applicable), which have different CAS numbers, may replace the anhydrous substances.			
a The classifications of the relevant substances correspond to manufacturer's self-classifications.			

## 9 Modification to 9.2.1

Replace the 1<sup>st</sup> sentence in the 2<sup>nd</sup> paragraph with the following:

"Only preservatives permitted in foodstuffs (see [5]) and/or cosmetics, except those preservatives which are only allowed in cosmetic products that are rinsed-off after use, (see [6]) shall be used."

Replace the 1<sup>st</sup> and 2<sup>nd</sup> sentences in the last paragraph with the following:

"The basic materials shall be appropriate for food contact (see [7]). The migration solvent shall be water, grade 3 (see EN ISO 3696)."