

<b>STN</b>	<b>Bezpečnosť hračiek</b> <b>Časť 16: Určité spomaľovače horenia na báze</b> <b>chlórovaného fosforu (TCEP, TCPP, TDCP)</b> <b>v materiáloch hračiek</b>	<b>STN</b> <b>EN 71-16</b>  94 3094
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Safety of toys – Part 16: Certain chlorinated phosphorus flame retardants (TCEP, TCPP, TDCP) in toy materials

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/25

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 71-16**

February 2025

ICS 97.190

English Version

**Safety of toys - Part 16: Certain chlorinated phosphorus  
flame retardants (TCEP, TCPP, TDCP) in toy materials**

Sécurité des jouets - Partie 16 : Certains retardateurs  
de flamme à base de phosphore chloré (TCEP, TCPP,  
TDCP) dans les matériaux-jouets

Sicherheit von Spielzeug- Teil16: Bestimmte chlorierte  
phosphorhaltige Flammschutzmittel (TCEP, TCPP,  
TDCP) in Spielzeugmaterialien

This European Standard was approved by CEN on 29 December 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN 71-16:2025 (E)**

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## European foreword

This document (EN 71-16:2025) 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of an identical text or by endorsement, at the latest by August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

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 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 16th 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*
- *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) (under development)*
- *Part 16: Certain chlorinated phosphorus flame retardants (TCEP, TCPP, TDCP) in toy materials (under development) (the present document)*

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- *Part 17: Certain isothiazolinones (MIT, CIT, BIT) in aqueous toy materials* (under development)
- *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* (under development)

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 EN 71, 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 categorization of projectile toys within EN 71-1*,
- CEN/TS 17973, *Safety of toys - Categorization of slime type materials*, 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).

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**

According to article 46 of Directive 2009/48/EC on the safety of toys [1] the “Commission may adopt specific limit values for chemicals used in toys intended for use by children under 36 months or in other toys intended to be placed in the mouth”.

In June 2014 the European Commission amended Appendix C to Annex II to this Directive accordingly and adopted specific limit values for TCEP, TCPP and TDCP in toys (see Commission Directive 2014/79/EU [2]). The limit values take into account the SCHER Opinion on tris(2-chloroethyl)phosphate (TCEP) in Toys [3].

This document provides a test method to check compliance with these limit values.

**WARNING** — The application of the test method specified in this document can involve hazardous materials, operations and equipment. The document does not purport to address all of the safety or environmental problems associated with its use.

**EN 71-16:2025 (E)****1 Scope**

This document specifies requirements and a test method for determining the content of the chlorinated phosphorus flame retardants TCEP, TCPP and TDCP in toy materials. This document is applicable to toys intended for use by children under 36 months or other toys intended to be placed in the mouth.

NOTE The European Commission Guidance Document No 11 on the Application of Directive 2009/48/EC on the Safety of Toys [9] provides guidelines to help on the classification of toys intended for children under 36 months of age or of 36 months and over.

**2 Normative references**

There are no normative references in this document.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**