

# Safety of toys —

## Part 2: Flammability

The European Standard EN 71-2:2003 has the status of a British Standard

ICS 13.220.40; 97.200.50

# National foreword

This British Standard is the official English language version of EN 71-2:2003. It supersedes BS EN 71-2:1994 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CW/15, Safety of toys, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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English version

## Safety of toys - Part 2: Flammability

Sécurité des jouets - Partie 2: Inflammabilité

Sicherheit von Spielzeug - Teil 2: Entflammbarkeit

This European Standard was approved by CEN on 28 February 2003.

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## Contents

|                                                                                                                                                                                                                                                                                                                                                                          |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Foreword.....                                                                                                                                                                                                                                                                                                                                                            | 3  |
| Introduction .....                                                                                                                                                                                                                                                                                                                                                       | 3  |
| 1 Scope (see A.1) .....                                                                                                                                                                                                                                                                                                                                                  | 4  |
| 2 Normative references .....                                                                                                                                                                                                                                                                                                                                             | 4  |
| 3 Terms and definitions.....                                                                                                                                                                                                                                                                                                                                             | 4  |
| 4 Requirements .....                                                                                                                                                                                                                                                                                                                                                     | 5  |
| 4.1 General (see A.2).....                                                                                                                                                                                                                                                                                                                                               | 5  |
| 4.2 Toys to be worn on the head which include beards, moustaches, wigs, etc made from hair, pile or material with similar features, moulded and fabric masks, and flowing material attached to hats, masks etc. (see A.3).....                                                                                                                                           | 6  |
| 4.3 Toy disguise costumes and toys intended to be worn by a child in play (see A.4).....                                                                                                                                                                                                                                                                                 | 6  |
| 4.4 Toys intended to be entered by a child (see A.5) .....                                                                                                                                                                                                                                                                                                               | 7  |
| 4.5 Soft filled toys (animals and dolls, etc) with a piled or textile surface.....                                                                                                                                                                                                                                                                                       | 7  |
| 5 Methods of test .....                                                                                                                                                                                                                                                                                                                                                  | 7  |
| 5.1 General.....                                                                                                                                                                                                                                                                                                                                                         | 7  |
| 5.2 Test relating to beards, moustaches, wigs, etc. made of <i>hair</i> , pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands) protruding 50 mm or more from the surface of the toy.....                                                                                                                                           | 8  |
| 5.3 Test relating to beards, moustaches, wigs, etc. made of <i>hair</i> , pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), protruding less than 50 mm from the surface of the product and full or partial moulded head masks including those which cover the head and which do not have hair, pile or similar materials ..... | 8  |
| 5.4 Test relating to flowing hoods, head-dresses, etc. which are attached to products worn on the head, disguise costumes and toys intended to be entered by a child.....                                                                                                                                                                                                | 9  |
| 5.5 Test for soft filled toys with a maximum dimension of 520 mm or less.....                                                                                                                                                                                                                                                                                            | 12 |
| 5.6 Test for soft filled toys with a maximum dimension greater than 520 mm.....                                                                                                                                                                                                                                                                                          | 12 |
| 5.7 Test report .....                                                                                                                                                                                                                                                                                                                                                    | 14 |
| Annex A (informative) Background and rationale for this standard .....                                                                                                                                                                                                                                                                                                   | 15 |
| Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives. ....                                                                                                                                                                                                                                    | 17 |

## Foreword

This document (EN 71-2:2003) 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 December 2003, and conflicting national standards shall be withdrawn at the latest by December 2003.

This document supersedes EN 71-2:1993.

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(s).

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 organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

This European Standard for the 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 6: *Graphical symbol for age warning labelling*

Part 7: *Finger paints – Requirements and test methods*

This standard is Part 2 of the European Standard for safety of toys, EN 71, and should be read in conjunction with Part 1.

There are very few accident data concerning the hazards associated with the *flammability* of toys.

Toys must not constitute a dangerous flammable element in the child's environment.

## 1 Scope (see A.1)

This part of EN 71 specifies the categories of flammable materials which are prohibited in all toys, and requirements concerning *flammability* of certain toys when they are subjected to a small source of ignition.

The test methods described in clause 5 are used for the purposes of determining the *flammability* of toys under the particular test conditions specified. The test results thus obtained cannot be considered as providing an overall indication of the potential fire hazard of toys or materials when subjected to other sources of ignition.

This part includes general requirements relating to all toys and specific requirements and methods of test relating to the following toys, which are considered as being those presenting the greatest hazard:

- $\frac{3}{4}$  toys to be worn on the head which include beards, moustaches, wigs, etc, made from *hair*, pile or material with similar features, moulded and fabric masks and flowing material attached to hats, masks, etc. but excluding paper novelty hats of the type usually supplied in party crackers;
- $\frac{3}{4}$  toy disguise costumes and toys intended to be worn by a child in play
- $\frac{3}{4}$  toys intended to be entered by a child
- $\frac{3}{4}$  *soft filled* toys (animals and dolls, etc.) with a piled surface or textile surface.

NOTE Additional requirements for flammability of electric toys are specified in EN 50088 Safety of Electric Toys.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 71-5:1993 - *Safety of Toys - Part 5: Chemical toys (sets) other than experimental sets*

EN ISO 2431:1991 - *Methods for the determination of flow time of paints by use of flow cups*

EN ISO 6941:1995 – *Textile fabrics – Burning behaviour – Measurement of flame spread properties of vertically oriented specimens*

EN 1103:1995 - *Textiles - Burning behaviour. Fabrics for apparel. Details procedure to determine the burning behaviour of fabrics for apparel*

EN 50088 - *Safety of electric toys*

## 3 Terms and definitions

For the purposes of this part of EN 71 the following definitions apply, and appear in italics throughout the standard.

- 3.1**  
**flammability**  
the ability of a material or a product to burn with a flame under specified test conditions.
- 3.2**  
**flaming debris**  
material that becomes detached from the sample during the test procedure and continues to flame as it falls.