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**BS EN 71-5:2015**



## BSI Standards Publication

# Safety of toys

Part 5: Chemical toys (sets) other than experimental sets

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This British Standard is the UK implementation of EN 71-5:2015. It supersedes BS EN 71-5:2013 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CW/15/5, Toys - Chemical.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

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

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

This European Standard was approved by CEN on 10 August 2015.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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Contents	Page
<b>European foreword.....</b>	<b>5</b>
<b>Introduction .....</b>	<b>7</b>
<b>1 Scope.....</b>	<b>8</b>
<b>2 Normative references.....</b>	<b>8</b>
<b>3 Terms and definitions .....</b>	<b>9</b>
<b>4 Plaster of Paris (gypsum) moulding sets.....</b>	<b>10</b>
<b>4.1 Marking.....</b>	<b>10</b>
<b>4.2 First aid information.....</b>	<b>10</b>
<b>4.3 Safety rules .....</b>	<b>10</b>
<b>5 Oven-hardening plasticised PVC modelling clay sets.....</b>	<b>11</b>
<b>5.1 Chemical substances .....</b>	<b>11</b>
<b>5.2 Marking.....</b>	<b>11</b>
<b>5.3 First aid information.....</b>	<b>11</b>
<b>5.4 Safety rules .....</b>	<b>12</b>
<b>6 Moulding sets.....</b>	<b>12</b>
<b>6.1 Polystyrene granules sets .....</b>	<b>12</b>
<b>6.1.1 Chemical substances .....</b>	<b>12</b>
<b>6.1.2 Marking.....</b>	<b>12</b>
<b>6.1.3 First aid information.....</b>	<b>12</b>
<b>6.1.4 Safety rules .....</b>	<b>13</b>
<b>6.2 Embedding sets.....</b>	<b>13</b>
<b>6.2.1 General.....</b>	<b>13</b>
<b>6.2.2 Packaging.....</b>	<b>13</b>
<b>6.2.3 Marking.....</b>	<b>13</b>
<b>6.2.4 First aid information.....</b>	<b>13</b>
<b>6.2.5 Safety rules .....</b>	<b>13</b>
<b>7 Adhesives, paints, lacquers, varnishes, thinners and cleaning agents (solvents) supplied or recommended in model sets .....</b>	<b>14</b>
<b>7.1 General.....</b>	<b>14</b>
<b>7.2 Adhesives .....</b>	<b>14</b>
<b>7.2.1 Water-based adhesives.....</b>	<b>14</b>
<b>7.2.2 Solvent-based adhesives.....</b>	<b>17</b>
<b>7.3 Water-based paints or lacquers.....</b>	<b>20</b>
<b>7.3.1 General.....</b>	<b>20</b>
<b>7.3.2 Packaging.....</b>	<b>20</b>
<b>7.3.3 Marking.....</b>	<b>20</b>
<b>7.3.4 First aid information.....</b>	<b>21</b>
<b>7.3.5 Safety rules .....</b>	<b>21</b>
<b>7.4 Solvent-based paints, lacquers, thinners and cleaning solvents .....</b>	<b>21</b>
<b>7.4.1 General.....</b>	<b>21</b>
<b>7.4.2 Packaging.....</b>	<b>22</b>
<b>7.4.3 Marking.....</b>	<b>22</b>
<b>7.4.4 First aid information.....</b>	<b>22</b>

This is a preview of "BS EN 71-5:2015". Click here to purchase the full version from the ANSI store.

<b>7.4.5 Safety rules</b>	<b>23</b>
<b>8 Marking</b>	<b>23</b>
<b>8.1 General</b>	<b>23</b>
<b>8.2 Marking of the primary packaging</b>	<b>23</b>
<b>8.2.1 General</b>	<b>23</b>
<b>8.2.2 Manufacturer's identification</b>	<b>23</b>
<b>8.2.3 Warning phrases</b>	<b>23</b>
<b>8.3 Marking of individual containers and any packagings</b>	<b>24</b>
<b>9 Instructions for use</b>	<b>24</b>
<b>9.1 General</b>	<b>24</b>
<b>9.2 Contents list</b>	<b>24</b>
<b>9.3 Advice for adult supervision</b>	<b>24</b>
<b>9.4 Safety rules</b>	<b>25</b>
<b>9.5 Instructions for carrying out the activities</b>	<b>25</b>
<b>9.6 Spills and disposal of chemicals</b>	<b>25</b>
<b>10 Test methods</b>	<b>26</b>
<b>10.1 General</b>	<b>26</b>
<b>10.2 Determination of plasticisers in oven-hardening polyvinyl chloride (PVC) modelling clay sets</b>	<b>26</b>
<b>10.2.1 Principle</b>	<b>26</b>
<b>10.2.2 Standards and reagents</b>	<b>26</b>
<b>10.2.3 Apparatus</b>	<b>27</b>
<b>10.2.4 Preparation of standard solutions</b>	<b>28</b>
<b>10.2.5 Sampling</b>	<b>29</b>
<b>10.2.6 Sample preparation</b>	<b>30</b>
<b>10.2.7 Procedure</b>	<b>30</b>
<b>10.2.8 Evaluation of results</b>	<b>31</b>
<b>10.2.9 Test report</b>	<b>33</b>
<b>10.3 Determination of the emission of benzene, toluene and xylenes from oven-hardening plasticised PVC modelling clay sets and polystyrene granules sets</b>	<b>33</b>
<b>10.3.1 Principle</b>	<b>33</b>
<b>10.3.2 Standards and reagents</b>	<b>34</b>
<b>10.3.3 Apparatus</b>	<b>34</b>
<b>10.3.4 Preparation of standard solutions</b>	<b>36</b>
<b>10.3.5 Sampling</b>	<b>36</b>
<b>10.3.6 Sample preparation</b>	<b>36</b>
<b>10.3.7 Procedure</b>	<b>36</b>
<b>10.3.8 Evaluation of results</b>	<b>36</b>
<b>10.3.9 Test report</b>	<b>37</b>
<b>10.3.10 Critical control points</b>	<b>37</b>
<b>10.4 Determination of styrene content in polystyrene granules</b>	<b>37</b>
<b>10.4.1 Principle</b>	<b>37</b>
<b>10.4.2 Standards and reagents</b>	<b>37</b>
<b>10.4.3 Apparatus</b>	<b>38</b>
<b>10.4.4 Preparation of the standard solutions</b>	<b>39</b>
<b>10.4.5 Sampling</b>	<b>39</b>
<b>10.4.6 Sample preparation</b>	<b>39</b>
<b>10.4.7 Procedure</b>	<b>39</b>
<b>10.4.8 Evaluation of results</b>	<b>39</b>
<b>10.4.9 Test report</b>	<b>39</b>
<b>10.5 Determination of organic solvents</b>	<b>40</b>
<b>10.5.1 General</b>	<b>40</b>

This is a preview of "BS EN 71-5:2015". Click here to purchase the full version from the ANSI store.

<b>10.5.2 Principle .....</b>	<b>42</b>
<b>10.5.3 Standards and reagents .....</b>	<b>43</b>
<b>10.5.4 Apparatus.....</b>	<b>44</b>
<b>10.5.5 Preparation of the standard solutions .....</b>	<b>46</b>
<b>10.5.6 Sampling.....</b>	<b>53</b>
<b>10.5.7 Sample preparation.....</b>	<b>53</b>
<b>10.5.8 Procedure.....</b>	<b>55</b>
<b>10.5.9 Evaluation of results .....</b>	<b>60</b>
<b>10.5.10 Test report.....</b>	<b>61</b>
<b>10.6 Combined approach for the determination of plasticisers in solvent-based adhesives and in solvent-based paints or lacquers, film-forming agents in paints and lacquers and modifiers in solvent-based paints or lacquers.....</b>	<b>61</b>
<b>10.6.1 Principle .....</b>	<b>61</b>
<b>10.6.2 Determination of total extract.....</b>	<b>62</b>
<b>10.6.3 Identification of nitrocellulose.....</b>	<b>63</b>
<b>10.6.4 Determination of plasticisers .....</b>	<b>65</b>
<b>10.6.5 Determination of film-forming agents .....</b>	<b>65</b>
<b>10.6.6 Determination of the modifiers .....</b>	<b>71</b>
<b>10.6.7 Test report.....</b>	<b>71</b>
<b>Annex A (normative) Environmental, health and safety precautions for using the methods of analysis .....</b>	<b>72</b>
<b>Annex B (informative) Organic solvents.....</b>	<b>73</b>
<b>Annex C (informative) Validation of test methods.....</b>	<b>75</b>
<b>Annex D (informative) Rationale.....</b>	<b>76</b>
<b>D.1 General remark.....</b>	<b>76</b>
<b>D.2 Primary packaging (4.1; 5.2; 6.1.2; 6.2.2; 7.2.1.2.2; 7.2.2.6; 7.3.2; 7.4.3; 8.2).....</b>	<b>76</b>
<b>D.3 Minimum age (4.1; 5.2; 6.1.2; 6.2.3; 7.2.1.2.3; 7.2.1.3.3; 7.2.2.6; 7.3.3; 7.4.3) .....</b>	<b>76</b>
<b>D.4 Benzene (5.1, Table 2; 7.2.2.4, Table 11; 7.4.1, Table 15) .....</b>	<b>76</b>
<b>D.5 Preservatives (6.2.1; 7.2.1.1; 7.3.1) .....</b>	<b>77</b>
<b>Annex E (informative) Significant technical changes between this European Standard and the previous version .....</b>	<b>78</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/48/EC.....</b>	<b>79</b>
<b>Bibliography.....</b>	<b>80</b>

This is a preview of "BS EN 71-5:2015". Click here to purchase the full version from the ANSI store.

## European foreword

This document (EN 71-5:2015) 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 March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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 supersedes EN 71-5:2013.

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 2009/48/EC, see informative Annex ZA, which is an integral part of this document.

The significant changes from the previous edition of this standard are detailed in Annex E.

This standard is Part 5 of the European Standard for safety of toys, EN 71.

This Part 5 of the EN 71 series is intended to be read in conjunction with EN 71, Part 1, Part 2 and Part 3, particularly the Introduction and Clause 1 of Part 1.

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 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, gustative board games, cosmetic kits and gustative kits;*

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— *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 Report, CR 14379, *Classification of toys — Guidelines*, CEN Technical Report CEN/TR 15071, *Safety of toys — National translations of warnings and instructions for use in EN 71*, and CEN Technical Report CEN/TR 15371, *Safety of toys — Replies to requests for interpretation of EN 71-1, EN 71-2, and EN 71-8*.

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

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## Introduction

This European Standard is intended to reduce the risks which may present health hazards to a child when the *chemical toys* are used as intended or in a foreseeable way, bearing in mind the behaviour of children.

When using these *chemical toys*, potential risks should be kept to a minimum by inclusion of appropriate information to give special attention to possible hazards, risks and other problems.

Chemical Abstract Service Registry Number (CAS) and European Inventory of Existing Chemical Substances Number (EINECS) given in various tables are provided for information purposes only.

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## 1 Scope

This European Standard specifies requirements and test methods for the substances and materials used in *chemical toys* (sets) other than *experimental sets*. These substances and mixtures are:

- those classified as dangerous by the EU-legislation applying to dangerous substances and dangerous mixtures [5];
- substances and mixtures which in excessive amounts could harm the health of the children using them and which are not classified as dangerous by the above mentioned legislation; and
- any other chemical substance(s) and mixture(s) delivered with the *chemical toy*.

NOTE The terms "substance" and "mixture" are defined in the REACH regulation No. (EC)1907/2006 and in the CLP regulation (EC) No. 1272/2008.

Additionally, requirements are specified for markings, warnings, safety rules, contents list, instructions for use and first aid information.

This Part of EN 71 applies to:

- *plaster of Paris (gypsum) moulding sets*;
- *oven-hardening plasticised PVC modelling clay sets*;
- *polystyrene granules sets*;
- *embedding sets*;
- *adhesives, paints, lacquers, varnishes, thinners and cleaning agents (solvents)*, supplied or recommended in *model sets*.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 3104, *Petroleum products — Transparent and opaque liquids — Determination of kinematic viscosity and calculation of dynamic viscosity (ISO 3104)*

EN ISO 3219, *Plastics — Polymers/resins in the liquid state or as emulsions or dispersions — Determination of viscosity using a rotational viscometer with defined shear rate (ISO 3219)*

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696)*

EN ISO 22854, *Liquid petroleum products — Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel - Multidimensional gas chromatography method (ISO 22854)*