

Australian Standard™

**Safety of toys**

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

This Australian Standard was prepared by Committee CS-018, Safety of Children's Toys. It was approved on behalf of the Council of Standards Australia on 5 May 2003 and published on 26 June 2003.

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The following are represented on Committee CS-018:

Australian Chamber of Commerce and Industry  
Australian Competition and Consumer Commission  
Australian Consumers Association  
Australian Hearing  
Australian Retailers Association  
Commerce Commission, New Zealand  
Department of Fair Trading, NSW  
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## PREFACE

This Standard was prepared by the Australian members of Joint Standards Australian/New Zealand Standards Committee CS-018, Safety of children's toys. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard. The Standard is identical with and has been reproduced from EN 71-5:1993, *Safety of toys, Part 5: Chemical toys (sets) other than experimental sets*.

The objective of this Standard is to specify requirements for the substances and materials used in chemical toys (sets) other than experimental sets.

As this Standard is reproduced from an international publication, the following applies.

- Its number appears on the cover and title page while the International Standard number appears only on the cover.
- In the source text, 'this Part of EN 71' and 'this European Standard' should read 'this Australian Standard'.
- A full point substitutes for a comma when referring to a decimal mark.

References to international Standards should be replaced by equivalent Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard or other publication</i>	<i>Australian/New Zealand Standard</i>
EN	AS/NZS ISO
71	8124 Safety of toys
71-1	8124-1 Part 1: Safety aspects related to mechanical and physical properties (ISO 8124-1:1990, MOD)
71-2	8124-2 Part 2: Flammability
71-3	8124-3 Part 3: Migration of certain elements
ISO	
3696	Water for analytical laboratory use— Specification and test methods
EEC	
64/54	Preservatives authorized for use in foodstuff intended for human consumption
67/548	Classification, packaging and labelling of dangerous substances
76/768	Cosmetic products
78/142	Materials and articles which contain vinylchloride monomer and are intended to come into contact with foodstuffs
88/379	Classification, packaging and labelling of dangerous preparations
90/128	Plastics materials and articles intended to come into contact with foodstuffs
91/442	Dangerous preparations the packaging of which must be fitted with child-resistant fastenings

The European Council Directives noted above, which are included as references in this Standard, may be downloaded from the following website: [www.europa.eu.int](http://www.europa.eu.int)

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# Safety of toys

## Part 5:

### Chemical toys (sets) other than experimental sets

#### Introduction

This European Standard for 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.*

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

This Part should be read in conjunction with Parts 1, 2 and 3, particularly the introduction and clause 1 of Part 1.

It 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 normal 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.

This Part of EN 71 specifies requirements for chemical toys (sets) other than experimental sets. Differing legal requirements, e.g. for classification of dangerous substances, risk/safety phrase labelling and limits for substances, exist in EFTA countries.

Chemical Abstract Service Registry Number (CAS) and European Inventory of Existing Chemical Substances Number (EINECS) given in Table 1 to Table 15 are provided for information purposes only.

Test methods to determine the migration of elements not covered by EN 71-3 are being developed and will be added at the earliest opportunity.

A method for the preparation of the materials to perform the migration test will be developed.

Methods for the determination of the emission of toluene, styrene and benzene in oven hardening plasticized PVC modelling clay sets and plastic moulding sets are in preparation. When these test methods have been established, requirements and methods of test will be included.

Methods for the determination of specific volatile substances in clause 9 are in preparation. When these methods have been established, methods of test will be included.

A test method for the determination of styrene in plastic moulding sets is in preparation.

Requirements and test methods for modifiers, resins and fillers are in preparation and will be added to this standard at the earliest opportunity.

#### 1 Scope

This Part of EN 71 specifies requirements for the substances and materials used in chemical toys (sets) other than experimental sets. It specifies:

- the maximum amounts of substances and preparations classified as dangerous by the definitions in Directives 67/540/EEC<sup>1)</sup> (with subsequent amendments and adaptations) and 88/379/EEC<sup>1)</sup> (with subsequent amendments and adaptations); and
- the maximum amounts of substances and preparations which in excessive amounts may harm the health of children using them and which are not covered by the above mentioned Directives; and
- the maximum amounts for other substances or preparations delivered with the toy.

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

This Part of EN 71 applies to:

- plaster of Paris (gypsum) moulding sets;
- ceramic and vitreous enamelling materials supplied in miniature workshop sets;
- oven hardening plasticized PVC modelling clay sets;
- plastic moulding sets;
- embedding sets;
- photographic developing sets;
- adhesives, paints, lacquers, varnishes, thinners and cleaning agents (solvents) supplied or recommended in model sets.

#### 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 71-1, *Safety of toys — Part 1: Mechanical and physical properties.*

EN 71-2, *Safety of toys — Part 2: Flammability.*

<sup>1)</sup> Differing legal requirements may exist in non-EC countries.