

Australian/New Zealand Standard™

**Safety of toys**

**Part 11: Organic chemical  
compounds—Methods of analysis**



## **AS/NZS 8124.11:2008**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-018, Safety of Children's Toys. It was approved on behalf of the Council of Standards Australia on 26 February 2008 and on behalf of the Council of Standards New Zealand on 7 March 2008.  
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Australian Competition and Consumer Commission  
Australian Consumers' Association  
Australian Retailers Association  
Australian Toy Association  
Consumers Affairs Victoria  
Consumers' Federation of Australia  
Kidsafe National  
Ministry of Consumer Affairs (New Zealand)  
National Acoustic Laboratories  
New Zealand Toy Distributors Association  
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**RECONFIRMATION**  
**OF**  
**AS/NZS 8124.11:2008**  
**Safety of toys**  
**Part 11: Organic chemical compounds—Methods of analysis**

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## NOTES

# Australian/New Zealand Standard™

## **Safety of toys**

### **Part 11: Organic chemical compounds—Methods of analysis**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-018, Safety of Childrens Toys.

The objective of this Standard is to specify methods for the analysis of toy and toy material extracts prepared according to the sampling procedures in AS 8124.10, to enable assessment of compliance with the chemical requirements specified in AS 8124.9.

This Standard is identical with, and has been reproduced from EN 71-11:2005, *Safety of toys—Part 11: Organic chemical compounds—Methods of analysis*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this European Standard’ should read ‘this Australian Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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

<i>Reference to European Standard</i>	<i>Australian/New Zealand Standard</i>
EN	AS/NZS
71 Safety of toys	8124 Safety of toys
71-9 Part 9: Organic chemical compounds—Requirements	8124.9 Part 9: Organic chemical compounds—Requirements
71-10 Part 10: Organic chemical compounds—Sample preparation and extraction	8124.10 Part 10: Organic chemical compounds—Sample preparation and extraction

Documents not listed have not been adopted as Australian or Australian/New Zealand Standards.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative annex’ is only for information and guidance.

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## 1 Scope

This Part 11 of the European Standard EN 71 for safety of toys specifies methods for the analysis of toy and *toy material* extracts prepared according to the sampling procedures in EN 71-10, to enable assessment of compliance with the chemical requirements specified in EN 71-9.

This European Standard specifies analytical methods for the identification and determination of the following groups of organic chemicals:

- Flame retardants
- Colourants
- Primary aromatic amines
- Monomers and solvents
- Wood preservatives
- Preservatives
- Plasticisers

NOTE 1 Methods for formaldehyde in accessible textile components of toys; accessible paper components of toys; and accessible resin-bonded wood components of toys are specified in EN 71-9.

NOTE 2 The method for free formaldehyde as a preservative is specified in EN 71-10.

## 2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 71-9:2005, *Safety of toys – Part 9: Organic chemical compounds – Requirements*

EN 71-10:2005, *Safety of toys – Part 10: Organic chemical compounds – Sample preparation and extraction*

EN ISO 3696, *Water for analytical laboratory use – Specification and test methods (ISO 3696:1987)*

## 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

### 3.1

#### **action limit**

routinely-achievable limit of quantification for a particular substance using the specified method of analysis

### 3.2

#### **aqueous migrate**

liquid obtained after extracting a *toy material* according to the procedure specified in Clause 6 of EN 71-10:2005

### 3.3

#### **test portion**

portion of the laboratory sample prepared for analysis

### 3.4

#### **toy material**

material from which toys and toy components are made

NOTE This definition differs from that given in EN 71-3