

Australian/New Zealand Standard™

Safety of toys

Part 2: Flammability



AS/NZS ISO 8124.2:2009

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-018, Safety of Toys. It was approved on behalf of the Council of Standards Australia on 24 March 2009 and on behalf of the Council of Standards New Zealand on 1 May 2009.

This Standard was published on 27 May 2009.

The following are represented on Committee CS-018:

Australian Chamber of Commerce and Industry
Australian Competition and Consumer Commission
Australian Consumers Association—CHOICE
Australian Retailers Association
Australian Toy Association
Consumer Affairs Victoria
Consumers Federation of Australia
KIDSAFE (Child Accident Prevention Foundation Australia)
Ministry of Consumer Affairs, New Zealand
New Zealand Toy Distributors Association
Office of Consumer Affairs and Fair Trading Tasmania
Office of Consumer and Business Affairs South Australia
Office of Fair Trading NSW Consumer Protection Agency
Pigment Ecological and Toxicological Technical Committee of Australia
Safekids New Zealand
The Children's Hospital at Westmead
Queensland Health

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 08228.

Australian/New Zealand Standard™

Safety of toys

Part 2: Flammability

Originated in Australia as part of AS 1647—1974.
Previous edition AS/NZS ISO 8124.2:2003.
Second edition 2009.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 9159 X

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-018, Safety of Toys to supersede AS/NZS ISO 8124.2:2003, *Safety of toys, Part 2: Flammability (ISO 8124-2:1994, MOD)*.

The objective of this Standard is to provide flammability requirements for toys, and flammability labelling requirements for certain materials used in or on toys.

This Standard is identical with, and has been reproduced from ISO 8124-2:2007, *Safety of toys, Part 2: Flammability*.

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

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of ISO 8124’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes 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 International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS	
2431	Paints and varnishes— Determination of flow time by use of flow cups	—	
6941	Textile fabrics—Burning behaviour—Measurement of flame spread properties of vertically oriented specimens	—	
		AS/NZS ISO	
8124	Safety of toys	8124	Safety of toys
8124-1	Part 1: Safety aspects related to mechanical and physical properties	8124.1	Part 1: Safety aspects related to mechanical and physical properties
EN			
71	Safety of toys	—	
71-5	Part 5: Chemical toys (sets) other than experimental sets		

CONTENTS

	<i>Page</i>
1	Scope 1
2	Normative references 1
3	Terms and definitions..... 2
4	Requirements 3
4.1	General (see A.3)..... 3
4.2	Toys to be worn on the head (see A.4) 3
4.3	Toy disguise costumes and toys intended to be worn by a child in a play (see A.5)..... 4
4.4	Toys intended to be entered by a child (see A.6) 5
4.5	<i>Soft-filled</i> toys (animals and dolls, etc.) with a piled or textile surface 5
5	Test methods..... 5
5.1	General..... 5
5.2	Test relating to beards, moustaches, wigs, etc., made from <i>hair</i>, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy..... 6
5.3	Test relating to beards, moustaches, wigs, etc., made from <i>hair</i>, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands), which protrude less than 50 mm from the surface of the toy, and full or partial molded head masks 7
5.4	Test relating to flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc., fabric masks which partially or fully cover the head, toy disguise costumes, toys intended to be worn by a child in a play and toys intended to be entered by a child..... 7
5.5	Test for <i>soft-filled</i> toys with a maximum dimension of 520 mm 10
5.6	Test for <i>soft-filled</i> toys with a maximum dimension greater than 520 mm 10
6	Test report 12
Annex A (informative)	Background and rationale for this document 13
Bibliography 15

AUSTRALIAN/NEW ZEALAND STANDARD

Safety of toys —**Part 2:
Flammability****1 Scope**

(See A.2)

This part of ISO 8124 specifies the categories of flammable materials that are prohibited in all toys, and requirements concerning *flammability* of certain toys when they are subjected to a minor 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 of ISO 8124 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:

- toys to be worn on the head: beards, moustaches, wigs, etc., made from *hair*, pile or material with similar features; molded and fabric masks; hoods, head-dresses, etc.; flowing elements of toys to be worn on the head, but excluding paper novelty hats of the type usually supplied in party crackers;
- toy disguise costumes and toys intended to be worn by a child in a play;
- toys intended to be entered by a child;
- *soft-filled* toys (animals and dolls, etc.) with a piled surface or textile surface.

NOTE 1 Additional requirements for *flammability* of electric toys are specified in IEC 62115, *Electric toys — Safety*.

NOTE 2 There are very few accident data concerning the hazards associated with the *flammability* of toys.

2 Normative references

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

ISO 2431:1993, *Paints and varnishes — Determination of flow time by use of flow cups*

ISO 6941:2003, *Textile fabrics — Burning behaviour — Measurement of flame spread properties of vertically oriented specimens*

ISO 8124-1:2000, *Safety of toys — Part 1: Safety aspects related to mechanical and physical properties*

ISO 8124-1/Amd.1, *Safety of toys — Part 1: Safety aspects related to mechanical and physical properties — Amendment 1*

ISO 8124-1/Amd.2, *Safety of toys — Part 1: Safety aspects related to mechanical and physical properties — Amendment 2*

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