

**BUREAU OF INDIAN STANDARDS**

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*Draft Indian Standard*

**SAFETY OF TOYS — PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND  
PHYSICAL PROPERTIES [ISO 8124-1:2022, IDT]**

*(Fifth Revision of IS 9873 Part 1)*

(ICS 97.200.50)

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Toys and Related Test Methods Sectional Committee,  
PCD 30

Last date for comments 18/03/2024

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**NATIONAL FOREWORD**

*(Formal clauses will be added later)*

This standard was first published in 1981 which was based on BS 5665-1 : 1979 (EN 71-1 : 1978) ‘Safety of toys, Part 1 Mechanical and physical properties’, issued by the British Standards Institution. First revision of this standard was carried out in 2001 which was identical with ISO 8124-1 : 2000. Second revision of this standard was carried out in 2012 which was identical with ISO 8124-1 : 2009. Third revision of this standard was carried out in 2017 which was identical with ISO 8124-1 : 2014. Fourth revision of this standard was carried out in 2019 which was identical with ISO 8124-1 : 2018.

The fifth revision of this standard has been undertaken to align it with the latest version of ISO 8124-1:2022 Safety of toys Part 1: Safety aspects related to mechanical and physical properties.

A list of the main technical changes made to the fourth revision is given in Annex G of ISO 8124-1:2022.

This Indian Standard is published in several parts. The other parts in this series are:

Part 2 Flammability *(fourth revision under WC)*

Part 3 Migration of certain elements

Part 4 Swings, slides and similar activity toys for indoor and outdoor family domestic use

- Part 5 Determination of total concentration of certain elements in toys
- Part 6 Determination of certain phthalate esters in toys and children’s products (*second revision under WC*)
- Part 7 Requirements and test methods for finger paints
- Part 8 Age determination guidelines
- Part 9 Certain phthalate esters in toys and children’s products
- Part 10 Experimental sets for chemistry and related activities (*under WC*)
- Part 11 Chemical toys (sets) other than experimental sets (*under WC*)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 6508-1, Metallic materials — Rockwell hardness test — Part 1: Test method	IS 1586 (Part 1) : 2018/ISO 6508-1 : 2016 Metallic Materials — Rockwell Hardness Test Part 1 Test Method ( Fifth Revision )	Identical
ISO 21920-2, Geometrical product specifications (GPS) — Surface texture: Profile — Part 2: Terms, definitions and surface texture parameters	IS 18432 (Part 2) : 2023/ISO 21920-2 : 2021 Geometrical Product Specifications (GPS) — Surface Texture — Profile Part 2 Terms, Definitions and Surface Texture Parameters	Identical

IEC 61672-1, Electroacoustics — Sound level meters — Part 1: Specifications	IS 15575 (Part 1) : 2016/IEC 61672-1 : 2013 Electroacoustics — Sound Level Meters Part 1 Specifications ( First Revision )	Identical
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The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 11201	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections
ISO 11202	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections
ISO 4593	Plastics — Film and sheeting — Determination of thickness by mechanical scanning

This Standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’.

**NOTE** — The technical content of the document is not available on website. For details, please refer the corresponding ISO 8124-1:2022 or kindly contact:

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**National Annex A**  
(National Foreword)

**A-1 BIS CERTIFICATION MARKING**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the standard mark.

**A-2 MARKING**

**A-2.1** The following shall be marked legibly and indelibly on each toy:

- a) Name of Manufacturer,
- b) His authorized representative, and
- c) Registered trade mark, if any.

**A-2.2** The following shall be marked legibly and indelibly on toy packing:

- a) Name of the article;
- b) Country of origin;
- c) Manufacturer's or his authorized representative's name and address and trade mark, if any;
- d) Batch No. /Code No.;
- e) Month and year of manufacture;
- f) Instructions, for use and storage as applicable (on packing/leaflet/tag, etc.);
- g) Safety directions, if any;
- h) Other provisions of Regulatory Authority, as required; and
- j) Usage's age group.