

ICS: 97.200.50

Geregistreeerde Belgische norm

NBN EN 71-1+A2

11e uitg., november 2013

Normklasse: S 25

Veiligheid van speelgoed - Deel 1 : Mechanische en fysieke eigenschappen

Sécurité des jouets - Partie 1: Propriétés mécaniques et physiques

Safety of toys - Part 1: Mechanical and physical properties

Toelating tot publicatie: 29 november 2013

Vervangt NBN EN 71-1 (2011).

Deze Europese norm EN 71-1+A2:2013 heeft de status van een Belgische norm.

Deze Europese norm bestaat in drie officiële versies (Duits, Engels, Frans).



Bureau voor Normalisatie - Jozef II-straat 40 - 1000 Brussel - België

Tel: +32 2 738 01 12 - Fax: +32 2 733 42 64 - E-mail: info@nbn.be - NBN Online: www.nbn.be
Bank 000-3255621-10 IBAN BE41 0003 2556 2110 BIC BPOTBEB1 BTW BE0880857592

ICS: 97.200.50

***norme belge
enregistrée***

NBN EN 71-1+A2

11e éd., novembre 2013

Indice de classement: S 25

Sécurité des jouets - Partie 1: Propriétés mécaniques et physiques

Veiligheid van speelgoed - Deel 1 : Mechanische en fysische eigenschappen

Safety of toys - Part 1: Mechanical and physical properties

Autorisation de publication: 29 novembre 2013

Remplace NBN EN 71-1 (2011).

La présente norme européenne EN 71-1+A2:2013 a le statut d'une norme belge.

La présente norme européenne existe en trois versions officielles (allemand, anglais, français).



Bureau de Normalisation - rue Joseph II 40 - 1000 Bruxelles - Belgique

Tél: +32 2 738 01 12 - Fax: +32 2 733 42 64 - E-mail: info@nbn.be - NBN Online: www.nbn.be

Banque 000-3255621-10 IBAN BE41 0003 2556 2110 BIC BPOTBEB1 TVA BE0880857592

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 71-1:2011+A2

September 2013

ICS 97.200.50

Supersedes EN 71-1:2011

English Version

Safety of toys - Part 1: Mechanical and physical properties

Sécurité des jouets - Partie 1: Propriétés mécaniques et physiques

Sicherheit von Spielzeug - Teil 1: Mechanische und physikalische Eigenschaften

This European Standard was approved by CEN on 25 May 2011 and includes Amendment 1 approved by CEN on 10 August 2013.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	7
Introduction	8
1 Scope (see A.2)	9
2 Normative references	11
3 Terms and definitions	12
4 General requirements.....	21
4.1 Material cleanliness (see A.3).....	21
4.2 Assembly (see A.4).....	21
4.3 Flexible plastic sheeting (see A.5 and A.16)	21
4.4 Toy bags	21
4.5 Glass (see 5.7 and A.6).....	21
4.6 Expanding materials (see A.7).....	22
4.7 Edges (see A.8)	22
4.8 Points and metallic wires (see A.9).....	22
4.9 Protruding parts (see A.10).....	23
4.10 Parts moving against each other	23
4.10.1 Folding and sliding mechanisms (see A.11).....	23
4.10.2 Driving mechanisms (see A.12).....	25
4.10.3 Hinges (see A.13).....	25
4.10.4 Springs (see A.14).....	25
4.11 Mouth-actuated toys and other toys intended to be put in the mouth (see A.15)	26
4.12 Balloons (see 4.3 and A.16)	26
4.13 Cords of toy kites and other flying toys (see A.17).....	26
4.14 Enclosures.....	26
4.14.1 Toys which a child can enter (see A.18).....	26
4.14.2 Masks and helmets (see A.19).....	27
4.15 Toys intended to bear the mass of a child (see A.20).....	28
4.15.1 Toys propelled by a child or by other means	28
4.15.2 Toy bicycles (see A.20)	33
4.15.3 Rocking horses and similar toys (see A.21)	33
4.15.4 Toys not propelled by a child	34
4.15.5 Toy scooters (see A.49)	35
4.16 Heavy immobile toys	36
4.17 Projectiles (see A.22).....	36
4.17.1 General.....	36
4.17.2 Projectile toys without stored energy.....	37
4.17.3 Projectile toys with stored energy	37
4.17.4 Bows and arrows	37
4.18 Aquatic toys and inflatable toys (see A.23)	38
4.19 Percussion caps specifically designed for use in toys and toys using percussion caps (see A.24)	38
4.20 Acoustics (see A.25).....	38
4.20.1 Exposure categories for time-averaged sound pressure levels.....	38
4.20.2 Emission sound pressure level limits	39
4.21 Toys containing a non-electrical heat source	43
4.22 Small balls (see 5.10 and A.48).....	44
4.23 Magnets (see A.51)	44
4.23.1 General.....	44
4.23.2 Toys other than magnetic/electrical experimental sets intended for children over 8 years.....	44

4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	44
4.24	Yo-yo balls (see A.52)	45
4.25	Toys attached to food (see A.55)	45
5	Toys intended for children under 36 months	45
5.1	General requirements (see A.26)	46
5.2	Soft-filled toys and soft-filled parts of a toy (see A.27)	47
5.3	Plastic sheeting (see A.28)	47
5.4	Cords, chains and electrical cables in toys (see A.29).....	47
5.5	Liquid-filled toys (see A.30).....	49
5.6	Speed limitation of electrically-driven ride-on toys.....	49
5.7	Glass and porcelain (see 4.5 and A.6).....	49
5.8	Shape and size of certain toys (see A.31).....	49
5.9	Toys comprising monofilament fibres (see A.32)	50
5.10	Small balls (see also 4.22 and A.48)	50
5.11	Play figures	50
5.12	Hemispheric-shaped toys (see A.50).....	50
5.13	Suction cups (see A.54).....	53
5.14	Straps intended to be worn fully or partially around the neck (see A.53).....	53
6	Packaging (see A.56).....	53
7	Warnings, markings and instructions for use (see A.33).....	54
7.1	General	55
7.2	Toys not intended for children under 36 months (see 4.22 and A.34).....	55
7.3	Latex balloons (see 4.12 and A.16).....	57
7.4	Aquatic toys (see 4.18 and A.23)	57
7.5	Functional toys (see A.35).....	57
7.6	Hazardous sharp functional edges and points (see 4.7 and 4.8)	57
7.7	Projectiles (see 4.17.3 c) and 4.17.4 c).....	57
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy.....	57
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0,08 J	57
7.8	Imitation protective masks and helmets (see 4.14.2 and A.19)	58
7.9	Toy kites (see 4.13).....	58
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys (see 4.15.1.2 and A.20)	58
7.10.1	Roller skates, inline skates and skateboards.....	58
7.10.2	Ride-on toys without a braking device.....	58
7.10.3	Electrically-driven ride-on toys	58
7.10.4	Instructions for use	58
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator (see 5.4 f)).....	59
7.12	Liquid-filled teethingers (see 5.5).....	59
7.13	Percussion caps specifically designed for use in toys (see 4.19)	59
7.14	Acoustics (see 4.19 and 4.20)	59
7.15	Toy bicycles (see 4.15.2.2)	59
7.16	Toys intended to bear the mass of a child (see 4.15.1.2, 4.15.2.2, 4.15.3 and 4.15.4)	60
7.17	Toys comprising monofilament fibres (see 5.9).....	60
7.18	Toy scooters (see 4.15.5.2).....	60
7.19	Rocking horses and similar toys (see 4.15.3 and A.21)	60
7.20	Magnetic/electrical experimental sets (see 4.23.3 and A.51)	61
7.21	Toys with electrical cables exceeding 300 mm in length (see 5.4 i)).....	61
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months (see 5.4 b), 5.4 c) and 5.4 g).....	61
8	Test methods	61
8.1	General requirements for testing.....	61
8.2	Small parts cylinder (see 4.6, 4.11, 4.18, 4.23.2, 4.23.3, 4.25, 5.1, 5.2 and A.36)	61
8.3	Torque test (see 4.6, 4.11, 4.14.2, 4.17, 4.18, 4.22, 4.23.2, 4.25, 5.1, 5.10, 5.12, 5.13 and Clause 6).....	62

8.4	Tension test (see A.37).....	63
8.4.1	Apparatus	63
8.4.2	Procedure	63
8.5	Drop test (see 4.5, 4.6, 4.10.2, 4.14.2, 4.22, 4.23.2, 4.25, 5.1, 5.10, 5.12 and 5.13).....	65
8.6	Tip over test (see 4.10.2, 4.22, 4.23.2, 5.1, 5.10, 5.12 and 5.13)	65
8.7	Impact test (see 4.5, 4.6, 4.10.2, 4.14.2, 4.22, 4.23.2, 4.25, 5.1, 5.10, 5.12, 5.13 and A.38).....	66
8.8	Compression test (see 4.6, 4.14.2, 4.22, 4.23.2, 4.25, 5.1, 5.10, 5.12, 5.13 and A.39)	66
8.9	Soaking test (see 4.11, 4.23.2, 5.1, 5.10 and 5.12)	66
8.10	Accessibility of a part or component (see 4.5, 4.7, 4.8, 4.10.2, 4.10.4, 4.15.1.3, 4.21, 5.2 and 5.7).....	67
8.10.1	Principle.....	67
8.10.2	Apparatus	67
8.10.3	Procedure	67
8.11	Sharpness of edges (see 4.5, 4.7, 4.9, 4.10.2, 4.14.2, 4.15.1.3 and 5.1)	68
8.11.1	Principle.....	68
8.11.2	Apparatus	69
8.11.3	Procedure	70
8.12	Sharpness of points (see 4.5, 4.8, 4.9, 4.10.2, 4.14.2, 4.15.1.3, 5.1 and A.40)	70
8.12.1	Principle.....	70
8.12.2	Apparatus	70
8.12.3	Procedure	71
8.13	Flexibility of metallic wires (see 4.8 and A.41).....	72
8.13.1	General.....	72
8.13.2	Metallic wires and other metallic components intended to be bent.....	72
8.13.3	Metallic wires likely to be bent	72
8.14	Expanding materials (see 4.6)	72
8.15	Leakage of liquid-filled toys (see 5.5 and A.42).....	73
8.16	Geometric shape of certain toys (see 5.8, 5.11 and A.43)	73
8.17	Durability of mouth-actuated toys (see 4.11 and A.44).....	74
8.17.1	Mouth-actuated projectile toys.....	74
8.17.2	Other mouth-actuated toys.....	74
8.18	Folding or sliding mechanisms (see 4.10.1 and A.45)	75
8.18.1	Loads	75
8.18.2	Toy pushchairs and perambulators.....	76
8.18.3	Other collapsible toys (see 4.10.1 c).....	76
8.19	Electric resistivity of cords (see 4.13)	76
8.20	Cords cross-sectional dimension (see 5.4 a)	77
8.21	Static strength (see 4.15.1.3, 4.15.1.5, 4.15.3, 4.15.4 and A.46).....	77
8.22	Dynamic strength (see 4.15.1.3)	78
8.22.1	Principle.....	78
8.22.2	Loads	78
8.22.3	Procedure	79
8.23	Stability	81
8.23.1	Toys intended to bear the mass of a child (see 4.15.1.4, 4.15.3 and 4.15.4).....	81
8.23.2	Heavy immobile toys (see 4.16).....	81
8.24	Determination of kinetic energy (see A.47).....	82
8.24.1	Kinetic energy of projectiles (see 4.17.3)	82
8.24.2	Kinetic energy of bows and arrows (see 4.17.4).....	82
8.25	Plastic sheeting.....	82
8.25.1	Thickness (see 4.3, 5.3 and Clause 6)	82
8.25.2	Adhesion (see 5.3)	82
8.26	Brake performance	83
8.26.1	Brake performance for certain ride-on toys (see 4.15.1.5)	83
8.26.2	Brake performance for toy bicycles (see 4.15.2.3)	83
8.26.3	Brake performance for toy scooters (see 4.15.5.5)	83
8.27	Strength of toy scooter steering tubes (see 4.15.5.3).....	84
8.27.1	Resistance to downward forces.....	84
8.27.2	Resistance to upward forces.....	85
8.28	Determination of emission sound pressure levels (see 4.20).....	86

8.28.1	General	86
8.28.2	Test procedures.....	89
8.29	Determination of maximum design speed of electrically-driven ride-on toys (see 4.15.1.2, 4.15.1.5, 4.15.1.8 and 5.6)	99
8.30	Measurement of temperature rises (see 4.21)	100
8.31	Toy chest lids (see 4.14.1 c))	100
8.31.1	General	100
8.31.2	Lid support	100
8.31.3	Durability test for vertically opening hinged lids	100
8.32	Small balls and suction cups test (see 4.17, 4.22, 4.25, 5.10 and 5.13)	100
8.32.1	Small balls and suction cups (see Clause 6).....	100
8.32.2	Small balls attached to a toy by a cord	101
8.33	Test for play figures (see 5.11).....	102
8.34	Tension test for magnets (see 4.23.2 and A.51)	102
8.34.1	General	102
8.34.2	Toys that contain more than one magnet or magnetic component.....	103
8.34.3	Toys that contain one magnet only	103
8.35	Magnetic flux index (see 4.23.2 and 4.23.3)	103
8.35.1	General	103
8.35.2	Apparatus	103
8.35.3	Procedure	104
8.35.4	Calculation of magnetic flux index	104
8.36	Perimeter of cords and chains (see 5.4 c) and 5.4 d))	105
8.36.1	Test equipment	105
8.36.2	Test procedures.....	106
8.37	Yo-yo balls measurements (see 4.24)	110
8.37.1	Measurement of initial length l_0	110
8.37.2	Measurement of elastic constant k	110
8.38	Breakaway feature separation test (see 5.4 b), 5.4 c) and 5.14)	111
8.39	Self-retracting cords (see 5.4 e)).....	112
8.40	Length of cords, chains and electrical cables (see 5.4 b), 5.4 c), 5.4 g), 5.4 h) and 5.4 i)).....	112
Annex A	(informative) Background and rationale for this European Standard.....	113
A.1	General	113
A.2	Scope (see Clause 1).....	113
A.3	Material cleanliness (see 4.1)	113
A.4	Assembly (see 4.2)	114
A.5	Flexible plastic sheeting (see 4.3)	114
A.6	Glass (see 4.5 and 5.7)	114
A.7	Expanding materials (see 4.6).....	114
A.8	Edges (see 4.7)	114
A.9	Points and metallic wires (see 4.8)	115
A.10	Protruding parts (see 4.9).....	115
A.11	Folding and sliding mechanisms (see 4.10.1)	116
A.12	Driving mechanisms (see 4.10.2).....	116
A.13	Hinges (see 4.10.3)	116
A.14	Springs (see 4.10.4).....	117
A.15	Mouth-actuated toys and other toys intended to be put in the mouth (see 4.11).....	117
A.16	Balloons (see 4.3, 4.12 and 7.3)	117
A.17	Cords of toy kites (see 4.13).....	118
A.18	Toys which a child can enter (see 4.14.1)	118
A.19	Masks and helmets (see 4.14.2 and 7.8).....	118
A.20	Toys intended to bear the mass of a child (see 4.15 and 7.10).....	118
A.21	Rocking horses and similar toys (see 4.15.3)	119
A.22	Projectiles (see 4.17)	120
A.23	Aquatic toys and inflatable toys (see 4.18 and 7.4)	120
A.24	Percussion caps specifically designed for use in toys and toys using percussion caps (see 4.19)	120
A.25	Acoustics (see 4.20)	121
A.26	General requirements for toys intended for children under 36 months (see 5.1)	123

A.27	Soft-filled toys and soft-filled parts of a toy (see 5.2)	124
A.28	Adhesion of plastic sheeting (see 5.3)	125
A.29	Cords and chains in toys (see 5.4).....	125
A.30	Liquid-filled toys (see 5.5 and A.42).....	127
A.31	Shape and size of certain toys (see 5.8 and A.43).....	127
A.32	Toys comprising monofilament fibres (see 5.9)	128
A.33	Warnings, markings and instructions for use (see 7.1).....	128
A.34	Warning for toys not intended for children under 36 months (see 7.2)	128
A.35	Warnings in connection with functional toys (see 7.5)	128
A.36	Small parts cylinder (see 8.2)	128
A.37	Tension test (see 8.4)	129
A.38	Impact test (see 8.7)	129
A.39	Compression test (see 8.8)	129
A.40	Sharpness of points (see 8.12).....	129
A.41	Flexibility of metallic wires (see 8.13).....	129
A.42	Leakage of liquid-filled teething toys (see 8.15 and A.30)	129
A.43	Geometric shape of certain toys (see 8.16 and A.31)	129
A.44	Durability of mouth-actuated toys (see 8.17)	129
A.45	Folding or sliding mechanisms (see 8.18)	130
A.46	Static strength (see 8.21)	130
A.47	Kinetic energy of projectiles, bows and arrows (see 8.24)	130
A.48	Small balls (see 4.22 and 5.10)	130
A.49	Toy scooters (see 4.15.5)	131
A.50	Hemispheric-shaped toys (see 5.12).....	132
A.51	Magnets (see 4.23)	132
A.52	Yo-yo balls (see 4.24)	134
A.53	Straps intended to be worn fully or partially around the neck (see 5.14)	137
A.54	Suction cups (see 5.13).....	137
A.55	Toys attached to food (see 4.25)	137
A.56	Packaging (see Clause 6).....	138
Annex B	(informative) Significant technical changes between this European Standard and the previous version	140
Annex ZA	(informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	142
Bibliography	144

Foreword

This document (EN 71-1:2011+A2:2013) 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 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

This document supersedes A2 EN 71-1:2011 A2.

This document includes Amendment 2 approved by CEN on 2013-08-10.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A2 A2.

Annex B provides details of significant technical changes between this European Standard and the previous edition.

This European Standard 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 2009/48/EC.

For relationship with EU Directive 2009/48/EC, see informative Annex ZA, which is an integral part of this European Standard.

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 European Standard constitutes the first part of the European Standard on safety of toys.

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*
- 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*

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 Different legal requirements may exist in non-EU countries.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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.

Introduction

This European Standard aims at reducing as far as possible those hazards which are not evident to users; it does not cover inherent hazards (e.g. instability of two-wheeled scooters, sharp needles in a sewing kit etc.) that are obvious to children or the persons in charge of them. Assuming that the toys are used in the intended manner they should not present any further hazard to children for whom they are intended (according to Directive 2009/48/EC “intended for use by” means that a parent or supervisor shall reasonably be able to assume by virtue of the functions, dimensions and characteristics of a toy that it is intended for use by children of the stated age group”). Allowance should also be made for foreseeable use, bearing in mind the behaviour of children who do not generally share the same degree of care as the average adult user.

As a general rule, toys are designed and manufactured for particular ages of children. Their characteristics are related to the age and stage of development of the children, and their use presupposes certain aptitudes.

Accidents are frequently due to a toy either being given to a child for whom it is not intended, or being used for a purpose other than that for which it was designed. Great care should therefore be taken when choosing a toy or game; account should be taken of the mental and physical development of the child who will be using it.

The requirements of this European Standard do not release parents or carers from their responsibility of watching over the child while he or she is playing.

1 Scope (see A.2)

This European Standard specifies requirements and methods of tests for mechanical and physical properties of toys.

This European Standard applies to toys for children, toys being any product or material designed or intended, whether or not exclusively, for use in play by children of less than 14 years. It refers to new toys taking into account the period of foreseeable and normal use, and that the toys are used as intended or in a foreseeable way, bearing in mind the behaviour of children.

It includes specific requirements for toys intended for children under 36 months, children under 18 months and for children who are too young to sit up unaided. According to Directive 2009/48/EC “intended for use by” means that a parent or supervisor shall reasonably be able to assume by virtue of the functions, dimensions and characteristics of a toy that it is intended for use by children of the stated age group. Therefore, for the purpose of this European Standard, e.g. *soft-filled toys* with simple features intended for holding and cuddling are considered as toys intended for children under 36 months.

NOTE Information relating to the age grading of toys and, in particular, which toys are intended for children under 36 months and which toys are not, can be found in CEN Report CR 14379, the Consumer Product Safety Commission (CPSC) Age determination guidelines, CEN/CENELEC Guide 11 and the European Commission’s Guidance Documents.

This European Standard also specifies requirements for *packaging*, marking and labelling.

This European Standard does not cover musical instruments, sports equipment or similar items but does include their toy counterparts.

This European Standard does not apply to the following toys:

- playground equipment intended for public use;
- automatic playing machines, whether coin operated or not, intended for public use;
- toy vehicles equipped with combustion engines (see A.2);
- toy steam engines;
- slings and catapults.

Items that are propelled into free flight by a child releasing an elastic band (e.g. aeroplanes and rockets) are considered as catapults (see 5th indent above).

This European Standard does not cover electrical safety aspects of toys. These are covered by EN 62115.

Furthermore, it does not cover the following items which, for the purpose of this European Standard, are not considered as toys:

- decorative objects for festivities and celebrations;
- products for collectors, provided that the product or its *packaging* bears a visible and legible indication that it is intended for collectors of 14 years of age and above. Examples of this category are:
 - detailed and faithful scale models (see A.2);
 - kits for the assembly of detailed scale models;

- folk dolls and decorative dolls and other similar articles;
- historical replicas of toys;
- reproductions of real fire arms;
- sports equipment including roller skates, inline skates, and skateboards intended for children with a body mass of more than 20 kg;
- bicycles with a *maximum saddle height* of more than 435 mm, measured as the vertical distance from the ground to the top of the seat surface, with the seat in a horizontal position and with the seat pillar set to the minimum insertion mark;
- *scooters* and other means of transport designed for sport or which are intended to be used for travel on public roads or public pathways;
- electrically driven vehicles which are intended to be used for travel on public roads, public pathways, or the pavement thereof;
- aquatic equipment intended to be used in deep water, and swimming learning devices for children, such as swim seats and swimming aids;
- puzzles with more than 500 pieces;
- guns and pistols using compressed gas, with the exception of water guns and water pistols;
- bows for archery over 120 cm long;
- fireworks, including percussion caps which are not specifically designed for toys;
- products and games using sharp-pointed missiles, such as sets of darts with metallic points;
- functional educational products, such as electric ovens, irons or other *functional products*, as defined in 2009/48/EC, operated at a nominal voltage exceeding 24 V which are sold exclusively for teaching purposes under adult supervision;
- products intended for use for educational purposes in schools and other pedagogical contexts under the surveillance of an adult instructor, such as science equipment;
- electronic equipment, such as personal computers and game consoles, used to access interactive software and their associated peripherals, unless the electronic equipment or the associated peripherals are specifically designed for and targeted at children and have a play value on their own, such as specially designed personal computers, key boards, joy sticks or steering wheels;
- interactive software, intended for leisure and entertainment, such as computer games, and their storage media, such as CDs;
- babies' soothers;
- child-appealing luminaires;
- electrical transformers for toys;
- fashion accessories for children which are not for use in play (see A.2);