

HAPE INTERNATIONAL (NINGBO) LTD  
 HAPPY ARTS&CRAFTS (NINGBO) CO., LTD  
 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : PORTABLE BABY GYM  
 BUMBLEBEE PRAM CHAIN  
 BUMBLEBEE PRAM RATTLE  
 GARDEN FRIENDS PLAY ARCH

Sample Quantity : 20 SETS

Style / Item No. : E0045,E0021,E0022,E0023

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E0021:0-5M; E0022: 0M+; E0023: 0-5M

Requested Age Grading : E0021:0-5M; E0022: 0M+; E0023: 0-5M

Client reference information : E0045A,E0021A,E0022A,E0023A  
 \*\*\*\*\*

Age Group Assessed as Per Age Guideline : E0021:0-5M; E0022: 0M+; E0023: 0-5M

Age Group Applied in Testing : E0021:0-5M; E0022: 0M+; E0023: 0-5M

Sample Receiving Date : NOV. 26, 2020

Further Information Date : MAR. 26, 2021

Testing Period : NOV. 26, 2020 TO MAR. 30, 2021

<u>Test Requested</u>	<u>Result</u>
EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties	<u>Pass</u>
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	<u>See Result</u>
EN 71-2: 2011+A1: 2014 – Safety of toys – Part 2: Flammability	<u>Pass</u>
EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>
EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1922 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>

Remark: As per client's request, the EN71-1:2014+A1:2018 test was conducted on the item No E0021 & E0022 & E0023 only



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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Wallace Lui  
Senior Technical Manager, Asia



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Results:

**EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES**

AS SPECIFIED IN EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.2	Assembly	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.26	Toy disguise costumes	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements:	
5.1a	Small part requirement on toys & removable components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
5.1f	The casing of toys intended for children too young to sit up unaided	<u>Pass</u>
5.2	Soft-filled toys and soft-filled parts of a toy	<u>Pass</u>
5.4	Cords, chains and electrical cable in toys	<u>Pass</u>
5.8	Shape and size of certain toys	<u>Pass</u>
5.10	Small balls	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>

Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects:

- Emphasising the warning
- Contrast, background and colours
- Reflecting surfaces and obscuring material
- Font type
- Font size
- Logical direction of text

For more details, see EN 71-1.



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7.11 Toys intended to be attaché to or strung across a cradle, cot, or perambulator Pass

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

**LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Present	Toy
CE Mark	Present	Packaging
Importer's Name & Address	Present	Toy/Packaging
Manufacturer's Name & Address	Present	Toy/Packaging
Product ID	Present	Toy/Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

**EN 71-2: 2011+A1: 2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY**

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>
4.5	Soft-filled toys	<u>Pass (See Result)</u>



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Result:

Soft-Filled Toys (clause 4.5)

Sample

MAT

Burning rate (mm/sec)

0

(Requirement: The rate of spread of flame on the surface of toy shall be not greater than 30 mm/sec or the toy shall self-extinguish.)

Remark: The bee, flower, leaf, triangle, apple, rattle were not tested since the stuffed portion of the sample has a maximum dimension less than 150mm.

N.B. : - Only applicable clauses were shown.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-240020.001	Natural colored solidwood
SN2	SHA20-240020.002	Natural colored plywood
SN3	SHA20-240020.003	Mint coating(On wood)
SN4	SHA20-240020.004	Lt.blue coating(On wood)
SN5	SHA20-240020.005	Blue coating(On wood)
SN6	SHA20-240020.006	Dk.blue coating(On wood)
SN7	SHA20-240020.007	Red coating(On wood)
SN8	SHA20-240020.008	Lt.green coating(On wood)
SN9	SHA20-240020.009	Dk.green coating(On wood)
SN10	SHA20-240020.010	Transparent coating(On wood)
SN11	SHA20-240020.011	Black coating(On wood)
SN12	SHA20-240020.012	Light blue ABS handle
SN13	SHA20-240020.013	Transparent ABS ball &ring&bead
SN14	SHA20-240020.014	Red ABS triangle plastic part
SN15	SHA20-240020.015	Transparent PMMA(On triangle plastic part)
SN16	SHA20-240020.016	White ABS switch
SN17	SHA20-240020.017	Red string
SN18	SHA20-240020.018	White string
SN19	SHA20-240020.019	Orange fabric flower
SN20	SHA20-240020.020	Yellow fabric flower&bee
SN21	SHA20-240020.021	White fabric face
SN22	SHA20-240020.022	Black fabric eye&bee
SN23	SHA20-240020.023	Lt.green fabric(On flower)
SN24	SHA20-240020.024	Dk.green fabric(On flower)
SN25	SHA20-240020.025	White fabric label with black printing
SN26	SHA20-240020.026	Lt.green/green fabric mat
SN27	SHA20-240020.027	Lt.green/green fleece mat
SN28	SHA20-240020.028	Black fabric zipper tape
SN29	SHA20-240020.029	Black plastic zipper teeth
SN30	SHA20-240020.030	Yellow coating(On wood)
SN31	SHA20-240020.031	White coating
SN32	SHA20-240020.032	Lt.blue PP clip
SN33	SHA20-240020.033	Yellow ABS bead
SN34	SHA20-240020.034	White ABS bead
SN35	SHA20-240020.035	Lt.blue ABS bead
SN36	SHA20-240020.036	Transparent PET(On yellow sunflower)



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SN37	SHA20-240020.037	Lt.blue elastic string
SN38	SHA20-240020.038	Orange felt sunflower
SN39	SHA20-240020.039	Pink felt with red printing
SN40	SHA20-240020.040	Red felt with pink printing
SN41	SHA20-240020.041	Green fabric leaf with dk.green printing
SN42	SHA20-240020.042	Transparent Blue PMMA swing
SN43	SHA20-240020.043	Yellow rope( Antenna)
SN44	SHA20-240020.044	lt.green PP leaf(On green felt)
SN45	SHA20-240020.045	Lt.green felt leaf with dk.green printing
SN46	SHA20-240020.046	Red fabric apple
SN47	SHA20-240020.047	Light blue TPE inner clip

**Remarks :**

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category III:for scrapped-off toy material)**

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	---



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Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	-
Soluble Lead (Pb)	23	mg/kg	5	---	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	---
Soluble Arsenic (As)	47	mg/kg	10	---	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	---
Soluble Selenium (Se)	460	mg/kg	10	---	ND	---
Soluble Boron (B)	15000	mg/kg	50	---	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	---
Soluble Aluminum (Al)	70000	mg/kg	50	---	120	---
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	---
Soluble Organic Tin*	12	mg/kg	-	---	ND	---

Test Item(s)	Limit	Unit	MDL	007	008	009
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	-
Soluble Lead (Pb)	23	mg/kg	5	---	---	---
Soluble Antimony (Sb)	560	mg/kg	10	---	---	---
Soluble Arsenic (As)	47	mg/kg	10	---	---	---
Soluble Barium (Ba)	18750	mg/kg	50	---	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	-
Soluble Mercury (Hg)	94	mg/kg	10	---	---	---
Soluble Selenium (Se)	460	mg/kg	10	---	---	---
Soluble Boron (B)	15000	mg/kg	50	---	---	---
Soluble Cobalt (Co)	130	mg/kg	10	---	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	---



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Soluble Copper (Cu)	7700	mg/kg	50	---	---	---
Soluble Aluminum (Al)	70000	mg/kg	50	---	---	---
Soluble Nickel (Ni)	930	mg/kg	10	---	---	---
Soluble Tin (Sn)	180000	mg/kg	3	---	---	---
Soluble Organic Tin*	12	mg/kg	-	---	---	---

Test Item(s)	Limit	Unit	MDL	010	011	012
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	70000	mg/kg	50	---	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND
Soluble Organic Tin*	12	mg/kg	-	---	---	ND

Test Item(s)	Limit	Unit	MDL	013	014	015
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND



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Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	016	017	018
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	019	020	021
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---



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Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	-
Soluble Lead (Pb)	23	mg/kg	5	---	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	---
Soluble Arsenic (As)	47	mg/kg	10	---	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	---
Soluble Selenium (Se)	460	mg/kg	10	---	ND	---
Soluble Boron (B)	15000	mg/kg	50	---	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	---
Soluble Aluminum (Al)	70000	mg/kg	50	---	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	---
Soluble Organic Tin*	12	mg/kg	-	---	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND



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Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	028	029	030
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

Test Item(s)	Limit	Unit	MDL	031	032	033
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND



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Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>	<u>036</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>039</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND



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Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	548	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	040	041	042
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	043	044	045
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND



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Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>046</u>	<u>047</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND



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Notes :

- (1) Mass of trace amount of sample 017 is 94.3mg, sample 019 is 83.9mg, sample 020 is 37.6mg, sample 023 is 92.7mg, sample 025 is 65.8mg, sample 034 is 63.9mg, sample 036 is 40.4mg, sample 039 is 47.9mg, sample 040 is 82.6mg, sample 041 is 85.4mg, sample 043 is 75.7mg, sample 044 is 41.1mg.
- (2) As received, the test portion of 003, 004, 006~011, 021, 022, 024, 030, 031 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019.
- (3) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

**EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1922 – Migration of certain elements (Category III:for scrapped-off toy material)**

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	-



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Soluble Lead (Pb)	23	mg/kg	5	---	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	---
Soluble Arsenic (As)	47	mg/kg	10	---	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	---
Soluble Selenium (Se)	460	mg/kg	10	---	ND	---
Soluble Boron (B)	15000	mg/kg	50	---	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	130	---
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	---
Soluble Organic Tin*	12	mg/kg	-	---	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	-
Soluble Lead (Pb)	23	mg/kg	5	---	---	---
Soluble Antimony (Sb)	560	mg/kg	10	---	---	---
Soluble Arsenic (As)	47	mg/kg	10	---	---	---
Soluble Barium (Ba)	18750	mg/kg	50	---	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	-
Soluble Mercury (Hg)	94	mg/kg	10	---	---	---
Soluble Selenium (Se)	460	mg/kg	10	---	---	---
Soluble Boron (B)	15000	mg/kg	50	---	---	---
Soluble Cobalt (Co)	130	mg/kg	10	---	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	---
Soluble Copper (Cu)	7700	mg/kg	50	---	---	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	---
Soluble Nickel (Ni)	930	mg/kg	10	---	---	---
Soluble Tin (Sn)	180000	mg/kg	3	---	---	---
Soluble Organic Tin*	12	mg/kg	-	---	---	---



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND
Soluble Organic Tin*	12	mg/kg	-	---	---	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND



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Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	---



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Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

Test Item(s)	Limit	Unit	MDL	022	023	024
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	-
Soluble Lead (Pb)	23	mg/kg	5	---	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	---
Soluble Arsenic (As)	47	mg/kg	10	---	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	---
Soluble Selenium (Se)	460	mg/kg	10	---	ND	---
Soluble Boron (B)	15000	mg/kg	50	---	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	---
Soluble Organic Tin*	12	mg/kg	-	---	ND	---

Test Item(s)	Limit	Unit	MDL	025	026	027
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND



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Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	028	029	030
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

Test Item(s)	Limit	Unit	MDL	031	032	033
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND



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Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

Test Item(s)	Limit	Unit	MDL	034	035	036
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	037	038	039
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND



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Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	578	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	040	041	042
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	043	044	045
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND



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Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	046	047
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND



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**Notes :**

- (1) Mass of trace amount of sample 005 is 30.3mg, sample 016 is 66.6mg, sample 019 is 64.2mg, sample 020 is 29.6mg, sample 023 is 65.4mg, sample 025 is 40.1mg, sample 034 is 71.8mg, sample 036 is 27.6mg, sample 038 is 75.0mg, sample 039 is 46.1mg, sample 040 is 62.3mg, sample 041 is 73.4mg, sample 043 is 65.0mg, sample 044 is 32.4mg.
- (2) As received, the test portion of 003, 004, 006~011, 021, 022, 024, 030, 031 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019.
- (3) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

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2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".



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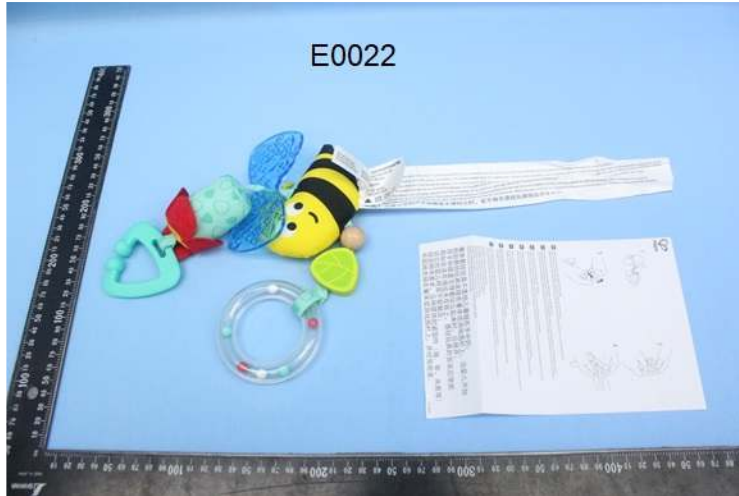
Sample Photo:



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