

TEST REPORT

Mechanical & Hardgoods Laboratory

Report No : HY/2018/50091

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Date : 2018/05/21

Chao Zhi Co., Ltd.

No. 198, Huantai E. Rd., Taiping Dist., Taichung City 411, Taiwan (R.O.C.)

The following merchandise was submitted & identified by the applicant as:

<u>Sample description and function:</u>	Tetrahedron Rubik's cube
<u>Packaging/Type:</u>	Not stated
<u>Instructions for use/assembly</u>	Not stated
<u>Product identification name:</u>	Wisdom Pyramid A, Wisdom Pyramid B, Wisdom Pyramid C, Wisdom Pyramid D, Wisdom Pyramid E, Wisdom Pyramid F
<u>Style/Item No:</u>	YCZ701, YCZ702, YCZ703, YCZ704, YCZ705, YCZ706
<u>Country of Origin:</u>	Taiwan
<u>Labeled Age Grading:</u>	Not stated
<u>Requested Age Grading:</u>	3+
<u>Age Group Assessed As Per Age Guideline:</u>	3 years +
<u>Age Group Applied in Testing:</u>	3 years +
<u>Sample receiving Date:</u>	2018/05/11
<u>Testing Period:</u>	2018/05/14 – 05/21

We have tested the submitted sample(s) as requested and the following results were obtained:

<u>Test Requested</u>	<u>Result</u>
- EN 71 Part 1:2014 – Mechanical and Physical Properties	<u>Pass</u>
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	<u>See Result on page 2</u>
- EN 71 Part 2:2011+A1:2014 – Flammability	<u>Pass</u>
- EN 71 Part 3:2013+A1:2014+A2:2017- Migration of Certain Elements	<u>Pass</u>

Signed for and on behalf of
SGS Taiwan Ltd.

Owen Cheng
Owen Cheng
Manager



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Test Results:

European Standard – Safety of Toys: EN 71 Part 1:2014 – Mechanical and Physical Properties

Clause	Description	Result
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.9	Protruding parts	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General	<u>N/A</u>
7.2	Toys not intended for children under 36months	<u>See Remark</u>
(Remark: No small part was found before and after test. Therefore, small part warning should not be shown on the packaging.)		

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	---
CE mark	Absent	---
Importer's Name & Address	Absent	---
Manufacturer's Name & Address	Absent	---
Product ID	Absent	---

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 soaked washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
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.

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European Standard - Safety of Toys : EN 71 Part 2:2011+A1:2014 – Flammability

Clause	Description	Result
4	Requirements	
4.1	General requirements	<u>Pass</u>

N.B.: -Only applicable clauses were shown

European Standard - Safety of Toys : EN 71 Part 3: 2013+A1:2014+A2:2017 - Migration of Certain Element

Category III: Scrapped-off toy material

Pass

Method: With reference to EN 71 Part 3:2013+A1:2014+A2:2017. Analysis of general elements was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

Test Items		Result(mg/kg)			RL (mg/kg)	Limit (mg/kg)
		1~5	6	7		
Soluble Aluminium	(Al)	N.D.	N.D.	N.D.	50	70,000
Soluble Antimony	(Sb)	N.D.	N.D.	N.D.	10	560
Soluble Arsenic	(As)	N.D.	N.D.	N.D.	10	47
Soluble Barium	(Ba)	N.D.	N.D.	N.D.	50	18,750
Soluble Boron	(B)	N.D.	N.D.	N.D.	50	15,000
Soluble Cadmium	(Cd)	N.D.	N.D.	N.D.	5	17
Soluble Cobalt	(Co)	N.D.	N.D.	N.D.	10	130
Soluble Copper	(Cu)	N.D.	N.D.	N.D.	50	7,700
Soluble Lead	(Pb)	N.D.	N.D.	N.D.	10	160
Soluble Manganese	(Mn)	N.D.	N.D.	N.D.	50	15,000
Soluble Mercury	(Hg)	N.D.	N.D.	N.D.	10	94
Soluble Nickel	(Ni)	N.D.	N.D.	N.D.	10	930
Soluble Selenium	(Se)	N.D.	N.D.	N.D.	10	460
Soluble Strontium	(Sr)	N.D.	N.D.	N.D.	50	56,000
Soluble Tin	(Sn)	N.D.	N.D.	N.D.	4.9	180,000
Soluble Zinc	(Zn)	N.D.	155	N.D.	50	46,000
Soluble Chromium (III)	(Cr (III))	N.D.	N.D.	N.D.	1	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	N.D.	N.D.	0.18	0.2
Soluble Organic Tin [#]	-	N.D.	N.D.	N.D.	-	12

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Remark: #

Test Items		Soluble Organic Tin Result(s)			MDL (mg/kg)
		1~5	6	7	
Methyl tin	(MeT)	N.D.	N.D.	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	N.D.	N.D.	0.5
Butyl tin	(BuT)	N.D.	N.D.	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	N.D.	N.D.	0.5
Tributyl tin	(TBT)	N.D.	N.D.	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	N.D.	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	N.D.	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	N.D.	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	N.D.	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	N.D.	N.D.	0.5

Description:

1. White plastic of sample.
2. Multicolored coating of sample. (Wisdom Pyramid A)
3. Multicolored coating of sample. (Wisdom Pyramid B)
4. Multicolored coating of sample. (Wisdom Pyramid C)
5. Multicolored coating of sample. (Wisdom Pyramid D)
6. Multicolored coating of sample. (Wisdom Pyramid E)
7. Multicolored coating of sample. (Wisdom Pyramid F)

NOTE:

1. mg/kg = ppm
2. N.D. = Not Detected
3. RL= Reporting Limit
4. MDL =Method Detection Limit
5. " - " = Not Regulated
6. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei

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** End of Report **

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