



NUMBER : TSNH00225197

Applicant : Tianjin Zhongrui Stationery Products Co., Ltd.
The North Of No.6 High School,Jingwen
Road,Jinghai,Tianjin,China
Attn :LI ZHAOHU

Date : Mar 27,2017

Sample Description:

One(1) submitted sample said to be **A set of six colors of chalk**
Item Name :Chalk
Item No. :330166
Age grading :3+
Buyer :PBS Austria GmbH
Manufacturer :TIANJIN ZHONGRUI STATIONERY PRODUCTS CO., LTD.
Country of Destination :Austria
Country of Origin :China

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

Tested Samples	Standard	Result
Submitted sample	EN71-1:2014 for mechanical and physical properties	Pass
Submitted sample	EN71-2 : 2011+A1:2014 Flammability test	Pass
Tested component(s) Submitted sample(s)	of EN71-3:2013+A1:2014 for migration of certain elements	Pass

To be continued

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.



David Zhang
Senior Manager



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1. Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1:2014.

Applicant's specified age group for testing: Over three years of age

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA

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Clause	Testing items	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Remark : P = Pass

NA = Not Applicable

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Remark : Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall 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.

- Manufacturer's name was missed.
- Manufacturer's address was missed.
- Importer's name was on the packaging.
- Importer's address was on the packaging.
- Product identification code was on the packaging.
- CE-marking was on the packaging.

2. Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass

NA = Not applicable

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3.19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by ICP-OES, ICP-MS, LC-ICP-MS, and GC-MS.

Category (I): Dry, brittle, powder-like or pliable toy material

Element	Result in mg/kg						Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	
Aluminium (Al)	<100	<100	<100	<100	<100	<100	5625
Antimony (Sb)	<10	<10	<10	<10	<10	<10	45
Arsenic (As)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8
Barium (Ba)	<10	<10	<10	<10	<10	<10	1500
Boron (B)	<50	<50	<50	<50	<50	<50	1200
Cadmium (Cd)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3
Chromium (III) (Cr III)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	37.5
Chromium (VI) (Cr VI)	<0.02#	<0.02#	<0.02#	<0.02#	<0.02#	<0.02#	0.02
Cobalt (Co)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10.5
Copper (Cu)	<10	<10	<10	<10	<10	<10	622.5
Lead (Pb)	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	13.5
Manganese (Mn)	24	21	15	24	15	13	1200
Mercury (Hg)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.5
Nickel (Ni)	<10	<10	<10	<10	<10	<10	75
Selenium (Se)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	37.5
Strontium (Sr)	499	475	464	399	368	396	4500
Tin (Sn)	<10	<10	<10	<10	<10	<10	15000
Organic tin	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.9
Zinc (Zn)	<100	<100	<100	<100	<100	<100	3750

Remark : mg/kg = milligram per kilogram
 - Organic tin test result was expressed as tributyl tin.

- Unless specified, determination of Chromium (III), Chromium (VI) and Organic tin was based on elemental analysis.

The above reference limit was quoted according to Annex II Part III Items 13 of the European Council Directive 2009/48/EC, amendment 2012/7/EU and amendment 681/2013/EU for 19 toxic elements in toys.

= Confirmation of Chromium (VI) test was performed on the tested component.

Tested Component(s):

- (1) white chalk
- (2) yellow chalk
- (3) blue chalk
- (4) green chalk
- (5) red chalk
- (6) purple chalk

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(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III : Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Date Sample Received : Mar 21,2017
Testing Period : Mar 21,2017 to Mar 24,2017

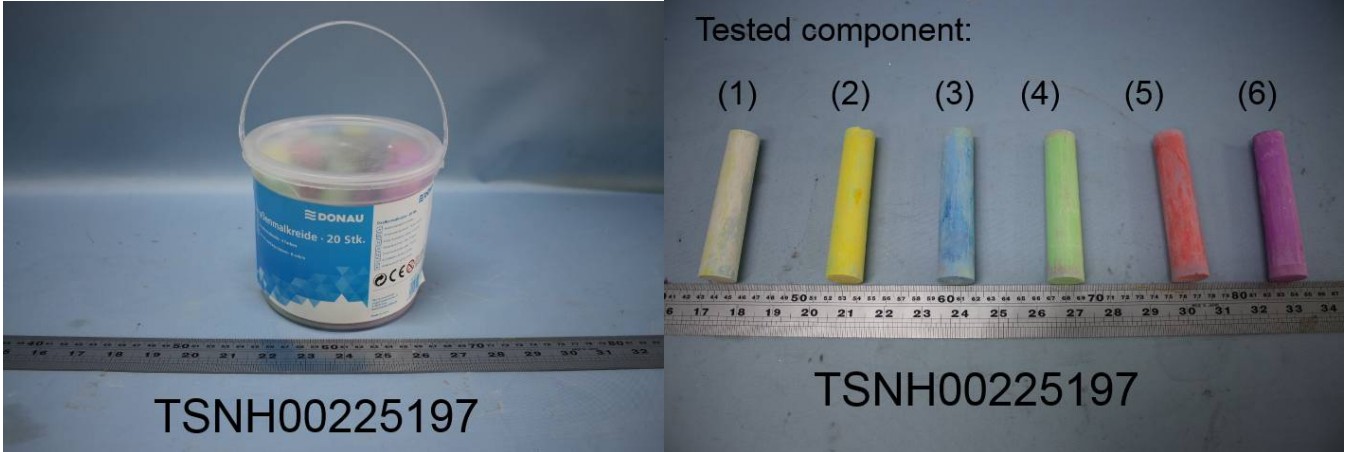
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