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29.01.2015

Report No. 0003134446/30 AZ193489

Test item: One fabric

Identification: Fabric: SANWIA

Condition at delivery: No claim

Date of delivery: 22.01.2015

Place of testing: Cologne, Nuremberg

Test period: 23.01.2015 to 29.01.2015

Test scope: Parameters selected by customer

Cologne, 29.01.2015


Dipl.-Ing. Gunther Bier
(Expert)


Petra Van Dyck
(Expert)

The test results exclusively refer to the samples examined.

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2. Results

EN 71-3, Migration of certain elements, category 3

Sample No.	193489-001		
Sample composition	Art. 1		
Unit	mg/kg		
Soluble heavy metals			
Aluminium	<100		
Antimony	<5		
Arsenic	<1		
Barium	<100		
Boron	<10		
Cadmium	<0,1		
Chromium, total	<0,2		
Chromium (III)	<0,2		
Chromium(VI)	<0,2		
Cobalt	<1		
Copper	<10		
Lead	<1		
Manganese	<100		
Mercury	<1		
Nickel	<10		
Selenium	<5		
Strontium	<100		
Tin*	<3		
Zinc	<100		

Legal limit values according to Directive 2009/48/EC:

Category 3:

Scraped-off toy material

aluminium 70000 mg/kg, antimony 560 mg/kg, arsenic 47 mg/kg, barium 18750 mg/kg, boron 15000 mg/kg, cadmium 17 mg/kg, chromium(III) 460 mg/kg, chromium(VI) 0,2 mg/kg, cobalt 130 mg/kg, copper 7700 mg/kg, lead 160 mg/kg, manganese 15000 mg/kg, mercury 94 mg/kg, nickel 930 mg/kg, selenium 460 mg/kg, strontium 56000 mg/kg, tin 180000 mg/kg, zinc 46000 mg/kg

*Tin: If the migration of tin is less than the reporting limit the compliance with the limit value of 12 mg/kg can be confirmed. The determination of tin-organic compounds is not required in regards to metals and all-mineral materials like glass, ceramics etc.

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Plasticizer

Sample No.	193489-002		
Sample composition	Art. 1		
Unit	%		
Phthalates			
Bis-(2-ethylhexyl)phthalate, DEHP	<0,01		
Dibutylphthalate, DBP	<0,01		
Benzylbutylphthalate, BBP	<0,01		
Sum DBP, BBP, DEHP	n.n.		
Diisononylphthalate, DINP	<0,01		
Diisodecylphthalate, DIDP	<0,01		
Di-n-octylphthalate, DNOP	<0,01		
Sum DNOP, DIDP, DINP	n.n.		

n.n. not detectable

Requirements according to regulation 1907/2006/EC Annex XVII respectively 2005/84/EC:
DEHP, DBP and BBP are totally banned (max. 0,1 % overall) in materials of toys and child care articles
DINP, DIDP and DNOP are banned (max. 0,1 % overall) in plasticised materials of toys and childcare articles which can be placed in the mouth by children.

----End of results----

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3. Summary of methods

EN 71-3, Migration of certain elements, category 3	Standard: EN 71-3 + A1	Issue date: 01.10.14
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Method description:

Safety of toys - Part 3: Migration of certain elements and chromium(VI) from toy materials of category III, analysis by ICP-MS according to DIN EN ISO 17294-2 respectively chromium(VI) after pre-column accumulation and post-column derivatisation by ion chromatography

Plasticizer

Method description:

In-house method - Determination of selected phthalates in toy material after solvent extraction, quantification by GC-MS

Notes:

Quantification equates the DIN EN ISO 18856.

This method also covers the phthalates and their maximum limits as requested by Section 10 of CPSIA of 2008 [H.R. 4040].