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## ANALYTICAL REPORT SP18-040804

The analysis of the sample said to be : Consumer Products

Article description : ES003NUR  
Article no : 500803/500803/500737  
Batch : 472190/487822/494248  
Additional Information : Eind ID:472189/487821/494247  
Date sample received : 29-10-2018  
Testing Period : 30-10-20187 till 06-11-2018

(\* Based on ISO/TR 8124-8)



<u>Sample</u>	<u>Description</u>
001	ES003NUR

### Test Requested

EN 71-3 Safety of Toys - Migration of Certain Elements CAT III  
Phthalates content  
Phthalates REACH Annex XVII entry 51  
Phthalates REACH Annex XVII entry 52

### Method

EN 71-3:2013+A1(2014)  
0021-LC  
0021-LC  
0021-LC

### Result

PASS  
See results  
PASS  
PASS

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### EN 71-3 Safety of Toys - Migration of Certain Elements CAT III

Category III: Scraped-off materials

Method: In accordance with EN71-3:2013+A1(2014). Analysis of general elements is performed by ICP-MS. If confirmation of Chromium (III) and Chromium (VI) has been performed, Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by IC-UV/VIS and organic tin was analyzed by GC-MS.

		mg/kg	Permissible Limit (mg/kg)
		001	
Weight of the sample	g	>0,10	
Soluble Aluminium	Al	<50	70.000
Soluble Antimony	Sb	<10	560
Soluble Arsenic	As	<10	47
Soluble Barium	Ba	<50	18.750
Soluble Boron	B	<50	15.000
Soluble Cadmium	Cd	<5,0	17
Soluble Chromium	Cr	<0,15	--
Soluble Chromium (III)	Cr(III)	<5,0	460
Soluble Chromium (VI)	Cr(VI)	<0,18	0,2
Soluble Cobalt	Co	<10	130
Soluble Copper	Cu	<50	7.700
Soluble Lead	Pb	<10	160
Soluble Manganese	Mn	<50	15.000
Soluble Mercury	Hg	<10	94
Soluble Nickel	Ni	<10	930
Soluble Selenium	Se	<10	460
Soluble Strontium	Sr	<50	56.000
Soluble Tin	Sn	<0,20	180.000
Soluble Organic Tin	Org. Tin	<4,9	12
Soluble Zinc	Zn	<50	46.000
Conclusion		<b>PASS</b>	

- Note:
- NC = Not conducted
  - INCONCLUSIVE = Confirmation test is recommended.
  - Confirmation test of soluble chromium (III) and chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3:2013+A1(2014). Confirmation shall be subcontracted within The SGS group.
  - If soluble chromium is <0,18 mg/kg, it is assumed that chromium (III) is <5 mg/kg and chromium (VI) is <0,18 mg/kg.
  - 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 EN71-3:2013+A1(2014). Confirmation shall be subcontracted within The SGS group.
  - If soluble tin is <4,9 mg/kg, it is assumed that soluble organic tin is <12 mg/kg.
  - NA = Not applicable; As received, test portion of the subsample is less than 10 mg, therefore such component was not tested for migration of certain elements, as specified in EN71-3:2013+A1(2014).
  - The measurement uncertainty has been applied to reach the conclusion.
  - The results only apply to the items tested.

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#### Phthalates content

Test item	<b>Diisobutyl phthalate</b>
Short name	DIBP
CAS No	84-69-5
Unit	%
<b>001</b>	<0,01

#### Phthalates REACH Annex XVII entry 51

Test item	Dibutyl phthalate	Bis(2-ethylhexyl) phthalate	Butylbenzyl phthalate	Total phthalates	Permissible Limit
Short name	DBP	DEHP	BBP	DEHP+DBP+BBP	-
CAS No	84-74-2	117-81-7	85-68-7	-	-
Unit	%	%	%	%	%
<b>001</b>	<0,02	<0,02	<0,02	<0,10	0,1

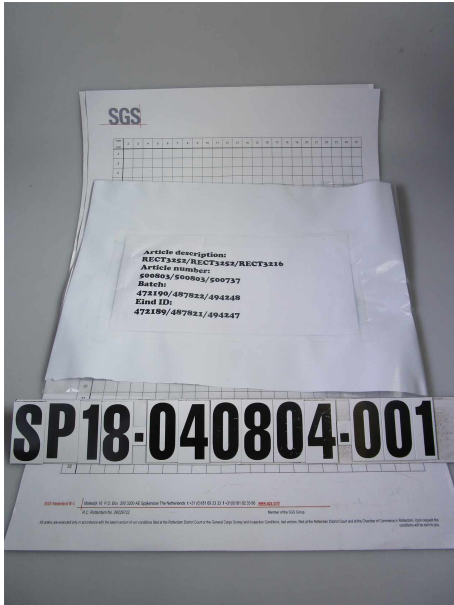
According to the European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments, the total concentration of DEHP, DBP and BBP shall not exceed 0,1% by weight of the plasticised material, in toys and childcare articles.

#### Phthalates REACH Annex XVII entry 52

Test item	Diisononyl phthalate	Di-n-octyl phthalate	Diisodecyl phthalate	Total phthalates	Permissible Limit
Short name	DINP	DNOP	DIDP	DINP+DIDP+DNOP	-
CAS No	28553-12-0/68515-48-0	117-84-0	26761-40-0/68515-49-1	-	-
Unit	%	%	%	%	%
<b>001</b>	<0,04	<0,02	<0,04	<0,10	0,1

According to the European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments, the total concentration of DINP, DIDP and DNOP shall not exceed 0,1% by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

Sample: 001  
Description: RECT3252/RECT3252/RECT3216



Spijkensisse, 6 November 2018  
C&R/AFL Laboratory

E.A.M. van Meurs  
Laboratory Manager

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