

TEST REPORT

APPLICANT : CROMOLOGY, S.L.
ADDRESS : CL FRANCIA,7 P.I. PLA DE LLERONA
 LES FRANQUESES DEL VALLES (BARCELONA) 0850
SAMPLE DESCRIPTION : A: CRYSTAL BASE
 B: EFECTO ARENA BRILLO
 C: EFECTO ARENA NACAR
 D: EFECTO ARENA NATURAL
 E: EFECTO METAL PLATA
ITEM NO. : 16007013/14/15/16/17
CODE NO. : 0000/16
SAMPLE RECEIVED DATE : 09-Dec-2016
TURN AROUND TIME : 09-Dec-2016 to 15-Dec-2016, 5 Working Days
REVISED DATE : 22-Mar-2017 to 24-Mar-2017, 3 Working Days

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant.

TEST REQUESTED	TEST METHOD / REGULATION	RESULT
Migration of Certain Elements	EN71 Part 3:2013+A1:2014	Pass

Note: This report cancels and supersedes report number EFSH16112420-CG-01+Rev 1 issued on Dec 19th, 2016. Modification description: as per client's request, revise sample description in the revised report.

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

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Joyce Liu
Lab Manager

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

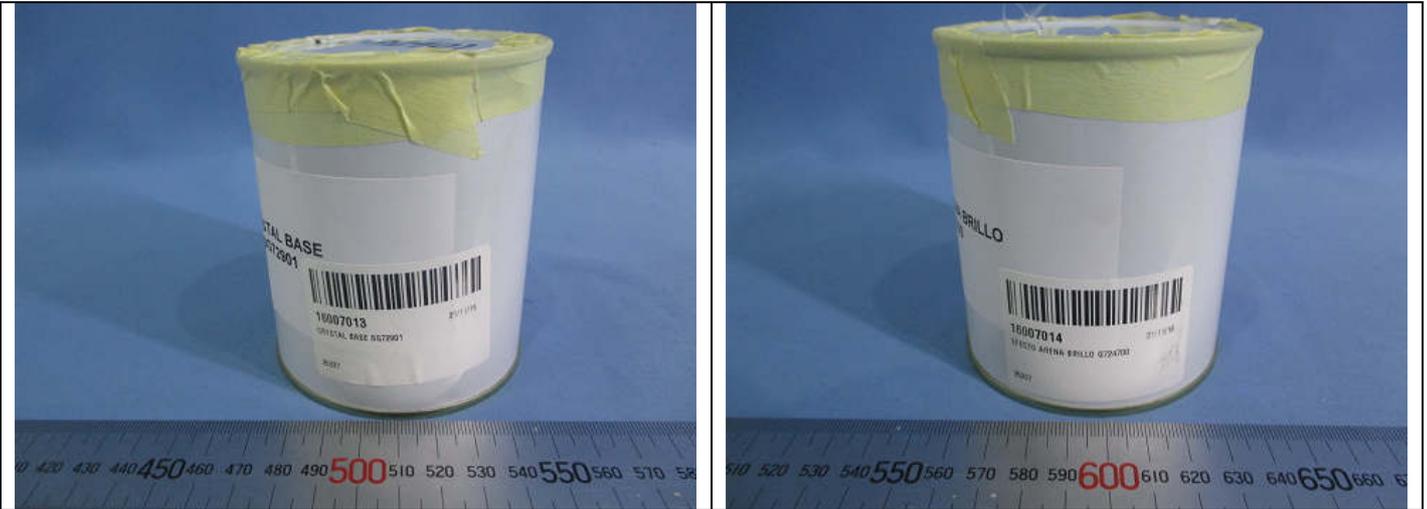
SAMPLE PHOTO(S)



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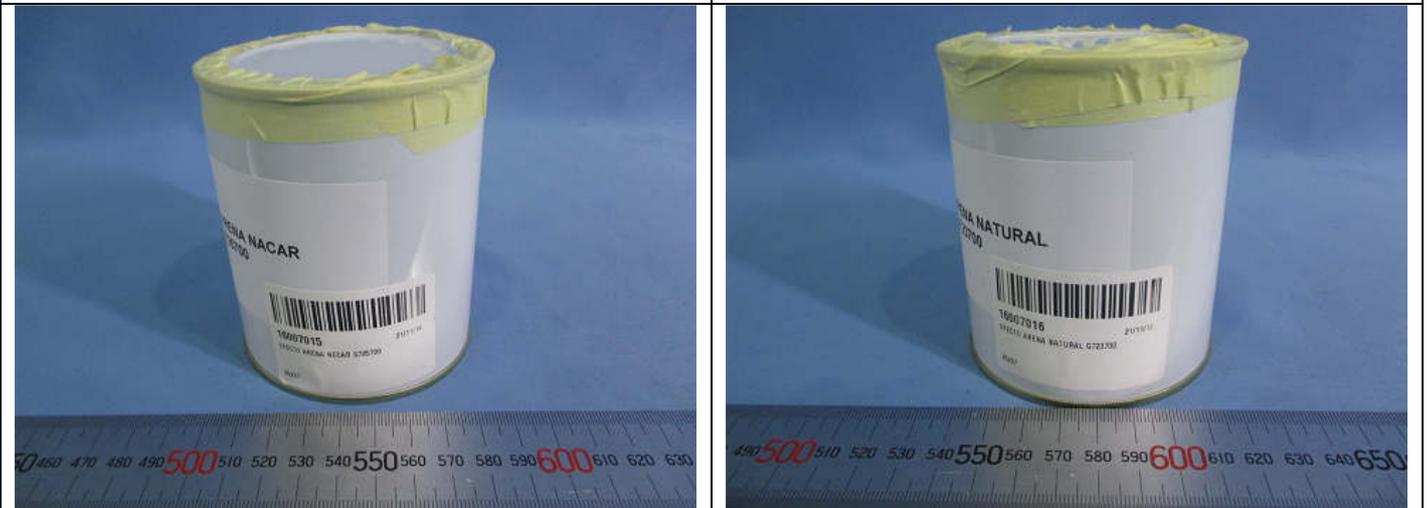
TO BE CONTINUED

SAMPLE PHOTO(S)



A

B



C

D



E

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TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Related Sample(s)
1	White liquid (SG72901 16007013)	A
2	Grey-white liquid (G724700 16007014)	B
3	Grey-white liquid (G724700 16007015)	C
4	Grey-white liquid (G723700 16007016)	D
5	Silver-grey liquid (G727700 16007017)	E

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2013+A1:2014

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by GC-MS.
 General elements – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by ICP-MS.
 Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A1:2014, analysis was performed by HPLC-ICP-MS.

Test Item(s):	Unit	Result				
		1	2	3	4	5
Category Type		II	II	II	II	II
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	50.8
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	mg/kg	ND	ND	ND	ND	ND
Extractable Chromium ^{#2}	mg/kg	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	mg/kg	-	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-

Note:

#1 - The migration of organic tin is expressed as tributyltin.

#2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

Remark:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

TO BE CONTINUED

TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Extractable Lead (Pb)	mg/kg	13.5	1	3.4	0.2	160	10
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50
Extractable Aluminum (Al)	mg/kg	5625	50	1406	50	70000	50
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50
Extractable Organic Tin ^{#1}	mg/kg	0.9	0.2	0.2	0.2	12	0.2
Extractable Chromium ^{#2}	mg/kg	-	0.02	-	0.005	-	0.02
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.2	0.1

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-“ = Not Regulated

*** END OF THE REPORT ***