

## **Test Report**

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**Applicant** ZHONGSHAN FUZHOU ADHESIVE-PRODUCT CO.,LTD Address TORCH HIGH-TECH DEVELOPMENT ZONE, ZHONGSHAN

CITY, GUANGDONGPROVINCE CHINA

The following sample(s) and sample information was/were submitted and identified by/on the

behalf of the client

Sample Name 特光纸/cast coated paper

Client Reference MCL-AR/MCL-A/MCL-AD/MCL-AM/MCL-B/MCL-BM/MCL-230g/

Information MCL-160g/MCL(FSC)

Sample Received Date Jan. 19, 2017

**Testing Period** Jan. 19, 2017 to Jan. 23, 2017

### **Executive Summary:**

**TEST REQUEST** CONCLUSION

European Standard on Safety of Toys:

EN 71-3:2013+A1:2014 Migration of certain elements

**Pass** 

\*\*\*\*\*\*\* For Further Details, Please Refer To the Following Page(s) \*\*\*\*\*\*\*\*\*\*\*

nghong Wan nnical Manager

Reviewed by

Jan. 26, 2017 Date

No. R131020088

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### ▼EN 71-3:2013+A1:2014 Migration of certain elements

Method(s) EN 71-3:2013+A1:2014 was/were used, and the item(s) was/were determined by ICP-OES, GC-MS.

Category Ⅲ: scraped-off toy material

Tostad Itam	Result	MDL	<u>Limit</u>
<u>Tested Item</u>	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	824	50	70000
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) #1	N.D.	0.2	460
Chromium (VI)	N.D.	0.16	0.2
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	5	160
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) #2	N.D.	2	180000
Organic tin (TBT) #3	N.D.	0.05	12
Zinc (Zn)	N.D.	50	46000







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**Tested Sample/Part Description** 

White paper

#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Filter paper was used instead of membrane filter in lab testing.
- #1 Trivalent chromium (Cr (III)) = Chromium (Cr) Hexavalent chromium (Cr (VI)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS/UV-Vis and trivalent chromium content was calculated using the formula.
- <sup>#2</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013+A1:2014.
- <sup>#3</sup> The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under	
EN 71-3:2013+A1:2014	
Methyl tin (MeT)	
Butyl tin (BuT)	
Dibutyl tin (DBT)	
Tributyl tin (TBT)	
Tetrabutyl tin (TeBT)	
n-Octyl tin (MOT)	(3)
Di-n-octyl tin (DOT)	(0,)
Di-n-propyl tin (DProT)	
Diphenyl tin (DPhT)	
Triphenyl tin (TPhT)	





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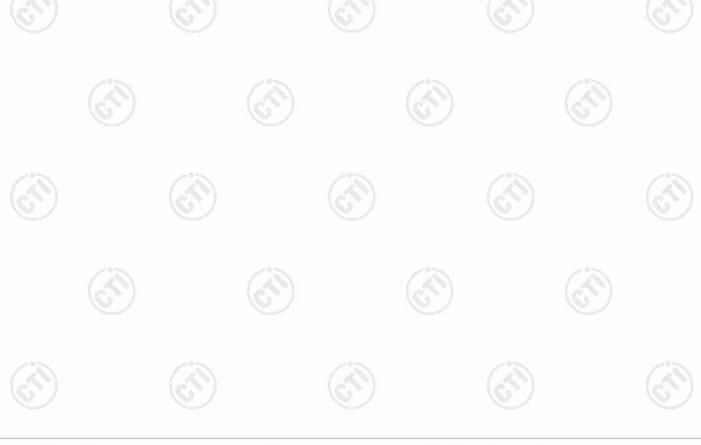
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### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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