

## Test Report

Number: GZHH00276551

Applicant: HE HUAN SHAN PAINTS CO., LTD  
2ND INDUSTRIAL DISTRICT YANCHUAN  
SONGGANG SHENZHEN

Date: Apr 13, 2018

Attn: 陈汶得

### Sample Description:

One (1) submitted sample said to be :

| 样品  | 名称      | 批号       | 送板日期       |
|-----|---------|----------|------------|
| 样品二 | 无铅玫瑰红喷漆 | 18022804 | 2018/04/04 |
|     | 无铅黄口红喷漆 | 18032308 |            |
|     | 无铅红豆红喷漆 | 18030305 |            |
|     | 无铅特绿喷漆  | 18031206 |            |
|     | 无铅群青蓝喷漆 | 18022803 |            |
|     | 无铅蓝色喷漆  | 18031607 |            |

Country of Origin : China

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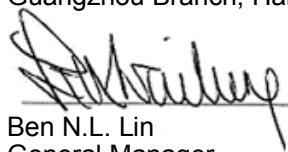
### Tests conducted:

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

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To be continued

Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines



Ben N.L. Lin  
General Manager



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**Test Report**

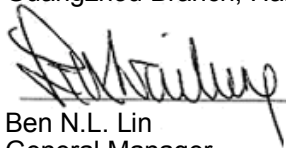
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Conclusion:

| <u>Tested sample</u><br>Submitted sample(s) | <u>Standard</u>   | <u>Result</u> |
|---|---|---------------|
|   | EN71-3:2013+A1:2014 on migration of certain elements  | Pass          |
|   | EN71-3:2013+A1:2014 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018) | Pass          |
|   | EN71-3:2013+A2:2017 on migration of certain elements  | Pass          |
|   | EN71-3:2013+A2:2017 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018) | Pass          |

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For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines



Ben N.L. Lin  
General Manager



**Test Report**

Number: GZHH00276551

Tests Conducted

1 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography.

Category (II): Liquid or sticky toy material

| Element                    | Result (mg/kg) | Reporting Limit (mg/kg) | Limit (mg/kg) |
|----------------------------|----------------|-------------------------|---------------|
|                            | Tested sample  |                         |               |
|                            | (1)            |                         |               |
| Aluminium (Al)             | ND             | 100                     | 1406          |
| Antimony (Sb)              | ND             | 1.0                     | 11.3          |
| Arsenic (As)               | ND             | 0.5                     | 0.9           |
| Barium (Ba)                | ND             | 10                      | 375           |
| Boron (B)                  | ND             | 50                      | 300           |
| Cadmium (Cd)               | ND             | 0.1                     | 0.3           |
| Chromium (III) (Cr III) ** | ND             | 1.0                     | 9.4           |
| Chromium (VI) (Cr VI) **   | ND#            | 0.0025                  | 0.005         |
| Cobalt (Co)                | ND             | 1.0                     | 2.6           |
| Copper (Cu)                | ND             | 10                      | 156           |
| Lead (Pb)                  | ND             | 0.1                     | 3.4/0.5ø      |
| Manganese (Mn)             | ND             | 10                      | 300           |
| Mercury (Hg)               | ND             | 1.0                     | 1.9           |
| Nickel (Ni)                | ND             | 1.0                     | 18.8          |
| Selenium (Se)              | ND             | 1.0                     | 9.4           |
| Strontium (Sr)             | ND             | 100                     | 1125          |
| Tin (Sn)                   | ND             | 0.05                    | 3750          |
| Organic tin**              | ND             | 0.15                    | 0.2           |
| Zinc (Zn)                  | ND             | 100                     | 938           |

Remark : mg/kg = milligram per kilogram

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

ø = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested sample: (1) Navy wet paint.

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**Test Report**

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Tests Conducted

(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: Apr 04, 2018

Testing period: Apr 04, 2018 to Apr 12, 2018

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**Test Report**

Number: GZHH00276551

Tests Conducted

2 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A2:2017 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography.

Category (II): Liquid or sticky toy material

| Element                    | Result (mg/kg) | Reporting Limit (mg/kg) | Limit (mg/kg) |
|----------------------------|----------------|-------------------------|---------------|
|                            | Tested sample  |                         |               |
|                            | (1)            |                         |               |
| Aluminium (Al)             | ND             | 100                     | 1406          |
| Antimony (Sb)              | ND             | 1.0                     | 11.3          |
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Tested sample: (1) Navy wet paint.

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Testing period: Apr 04, 2018 to Apr 12, 2018

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Tests Conducted



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End of report

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