



**Test Report**

No.T52310250722TC

Date: MAR 02, 2023

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DONGGUAN JIAN PLASTIC & METAL PRODUCTS LTD.  
NO. 6, GAOBU BLVD; GAOBU TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, CHINA 523278

The following samples were submitted and identified by/on behalf of the client as:

MIXTURE INK FOR LANYARD PRINTING

Buyer : WORLD WIDE  
 Manufacturer : CHINA  
 Country of Origin : CHINA  
 Country Of Destination : WORLD WIDE  
 Requested Age Grading : 3+

\*\*\*\*\*

Sample Receiving Date : FEB 16, 2023  
 Testing Period : FEB 16, 2023 TO MAR 02, 2023



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SGS-CSTC Standards Technical Services Co., Ltd.  
 Shenzhen Branch Testing Center Hardlines

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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements	PASS
2.	ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content	--
	Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1	PASS

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

Signed for and on behalf of  
SGS-CSTC Standards Technical  
Services Co., Ltd. Shenzhen Branch Testing Center



Qu Ping, Kiky  
Dept. Manager



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Results:

**Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)	MDL	Permissible Limit
Specimen No.	1	--	--
Mass of trace amount (mg)	/	--	--
Soluble Aluminium (Al) (mg/kg)	171	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	5	17
Soluble Chromium+ (Cr) (mg/kg)	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	10	460
Soluble Strontium (Sr) (mg/kg)	154	50	56000
Soluble Tin (Sn) (mg/kg)	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	50	46000

Specimen Description:

1. Grey wet paint





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- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm
  - + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- \* = Exceeds Permissible Limit

## ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

### Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	3	1	/	ND	ND	ND	ND	ND	ND	ND	ND

### Specimen Description:

1. Grey wet paint

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight



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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012)- When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability( $k=2$ ),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_L - U_{95}, T_L + U_{95}]$

### Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

