

## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 1 of 10

SHENZHEN SOMAGI STATIONERY CO.,LIMITED

4F,NO.6 BUILDING,LIANHUA INDUSTRIAL PARK, YINGTAI INDUSTRIAL CENTER,DALANG, LONGHUA, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : ACRYLIC PAINT INK

SGS Job No. : TJHL1811006650ST - TJ  
 Style No. : SMQ-906/SMQ-903/SMQ-606/SMQ-603/SMQ-603D  
 Date of Sample Received : 05 Dec 2018  
 Testing Period : 05 Dec 2018 - 11 Mar 2019  
 Test Requested : Selected test(s) as requested by client.  
 Test Method : Please refer to next page(s).  
 Test Results : Please refer to next page(s).

### Result Summary :

Test Requested	Conclusion
Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738 – EN71-3: 2013 + A3: 2018, as specified by clients – Migration of certain elements(Category II: Liquid or Sticky toy material )	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Wang Bo, Claire  
 Approved Signatory



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# Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 2 of 10

Test Results :

## Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO18-058673.001	Light purple paint ink
SN2	TAO18-058673.002	Purple paint ink
SN3	TAO18-058673.003	Dark purple paint ink
SN4	TAO18-058673.004	Rose pink paint ink
SN5	TAO18-058673.005	Rediance paint ink
SN6	TAO18-058673.006	Red paint ink
SN7	TAO18-058673.007	Skin paint ink
SN8	TAO18-058673.008	Peach red paint ink
SN9	TAO18-058673.009	Brown paint ink
SN10	TAO18-058673.010	Light yellow paint ink
SN11	TAO18-058673.011	Yellow paint ink
SN12	TAO18-058673.012	Light orange paint ink
SN13	TAO18-058673.013	Orange paint ink
SN14	TAO18-058673.014	Light blue paint ink
SN15	TAO18-058673.017	Teal paint ink
SN16	TAO18-058673.018	Green paint ink
SN17	TAO18-058673.020	Light cyan paint ink
SN18	TAO18-058673.023	Grey paint ink
SN19	TAO18-058673.024	Black paint ink
SN20	TAO18-058673.025	Pink paint ink
SN21	TAO18-058673.026	Rose paint ink
SN22	TAO18-058673.027	Brownish red paint ink
SN23	TAO18-058673.028	Dark brown paint ink
SN24	TAO18-058673.031	Blue paint ink(Submitted on Mar/5/2019)
SN25	TAO18-058673.032	Dark green paint ink(Submitted on Mar/5/2019)
SN26	TAO18-058673.033	Cyan paint ink(Submitted on Mar/5/2019)
SN27	TAO18-058673.034	White paint ink(Submitted on Mar/5/2019)

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 3 of 10

**Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738 – EN71-3: 2013 + A3: 2018, as specified by clients – Migration of certain elements(Category II: Liquid or Sticky toy material )**

Test Method : With reference to EN71-3: 2013 + A3: 2018, analysis was performed by ICP-MS.

Soluble Chromium (VI) was analyzed by IC-UV

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	2	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	51	52
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 4 of 10

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	51	51	60
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	51	56	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	0.22	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 5 of 10

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>017</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	0.31	0.45	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	95	52
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 6 of 10

Test Item(s)	Limit	Unit	MDL	018	020	023
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	0.47	0.22	0.38
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	51	115	ND
Soluble Aluminum (Al)	1406	mg/kg	50	59	79	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	024	025	026
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	0.39	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	66	ND



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 7 of 10

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>	<u>025</u>	<u>026</u>
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>027</u>	<u>028</u>	<u>031</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	54	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>032</u>	<u>033</u>	<u>034</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	0.5	mg/kg	0.2	0.23	ND	0.37
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	1	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 8 of 10

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>032</u>	<u>033</u>	<u>034</u>
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	60	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	186	62	249
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin*	0.2	mg/kg	-	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

### Notes :

(1) \*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 + A3: 2018.

### Note :

(1) Only results of sample ID 031-034 were retested, all other results were copied from test report TAOCHEM1805867301 (TJHL1811006650ST).



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## Test Report

No. TAOCHEM1805867302

Date: 11 Mar 2019

Page 9 of 10

Sample photo:





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