

TEST REPORT

Report No : HTY24A00029M01

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Date : 2024/10/31

The following merchandise was submitted & identified by the applicant as:Product Description: PAINT MARKERStyle/Item No: PM-50Manufacturer/Vendor:Country of Origin: TAIWAN

Sample Receiving Date: 2024/10/08Testing Period: 2024/10/08 ~ 10/25**We have tested the submitted sample(s) as requested and the following results were obtained:****Test Requested:**

Please refer to the result summary.

Methods and Results:

Please refer to next page(s).

**Signed for and on behalf of
SGS Taiwan Ltd.**Iris Huang
Manager

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Result Summary:

<u>Item</u>	<u>Test Parameter</u>	<u>Conclusion</u>
1.	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1: 2021– Migration of certain elements (As per client's request, only test the specific material selected by client)	(See result 1)
2.	Phthalate content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006 (As per client's request, only test the specific material selected by client)	(See result 2)
3.	Lead (Pb) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006 (As per client's request, only test the specific material selected by client)	(See result 3)

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Test Results:

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

Category II: Liquid or sticky toy material

Method: With reference to EN 71-3:2019 + A1: 2021. Analysis of general elements was performed by ICP-OES / ICP-MS. Chromium (III) was obtained by calculation. Chromium (VI) was analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Items		Result(mg/kg)	RL (mg/kg)	Permissible Limit (mg/kg)
		1		
Soluble Aluminum	(Al)	454	50	560
Soluble Antimony	(Sb)	N.D.	1	11.3
Soluble Arsenic	(As)	N.D.	0.4	0.9
Soluble Barium	(Ba)	N.D.	50	375
Soluble Boron	(B)	N.D.	50	300
Soluble Cadmium	(Cd)	N.D.	0.1	0.3
Soluble Cobalt	(Co)	N.D.	0.5	2.6
Soluble Copper	(Cu)	N.D.	50	156
Soluble Lead	(Pb)	N.D.	0.2	0.5
Soluble Manganese	(Mn)	N.D.	50	300
Soluble Mercury	(Hg)	N.D.	0.5	1.9
Soluble Nickel	(Ni)	N.D.	9	18.8
Soluble Selenium	(Se)	N.D.	4	9.4
Soluble Strontium	(Sr)	N.D.	50	1,125
Soluble Tin	(Sn)	N.D.	4.9	3,750
Soluble Zinc	(Zn)	113	50	938
Soluble Chromium	(Cr)	N.D.	1	-
Soluble Chromium (III)	(Cr (III))	N.D.	1	9.4
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.0025	0.005
Soluble Organic Tin [#]	-	0.0431	-	0.2

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Remark: #

Test Items		Soluble Organic Tin Result(s)	RL (mg/kg)
		1	
Methyl tin	(MeT)	N.D.	0.03
Dimethyl tin	(DMT)	0.0431	0.03
Di-n-propyl tin	(DProT)	N.D.	0.03
Butyl tin	(BuT)	N.D.	0.03
Dibutyl tin	(DBT)	N.D.	0.03
Tributyl tin	(TBT)	N.D.	0.03
n-Octyl tin	(MOT)	N.D.	0.03
Tetrabutyl tin	(TeBT)	N.D.	0.03
Di-n-octyl tin	(DOT)	N.D.	0.03
Diphenyl tin	(DPhT)	N.D.	0.03
Triphenyl tin	(TPhT)	N.D.	0.03

2. Phthalate content

Method: With reference to EN 14372: 2004 method. Analysis was performed by GC/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>Results</u>	<u>RL</u>	<u>Limit</u>
			<u>1</u>		
<u>For all plasticized material</u>					
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	N.D.	30	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	N.D.	30	
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	N.D.	30	
<u>For toys or childcare articles if it can be placed in the mouth</u>					
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	mg/kg	N.D.	100	1000
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	N.D.	30	
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	mg/kg	N.D.	100	

3. Lead content

Plastic/Paint and Other Similar Surface Coatings / Other material

Method: With reference to US EPA 3052 (1996). Analysis was performed by ICP – OES

Test Item(s)	Unit	RL	1	Limit
Lead (Pb)	mg/kg	2	N.D.	< 500

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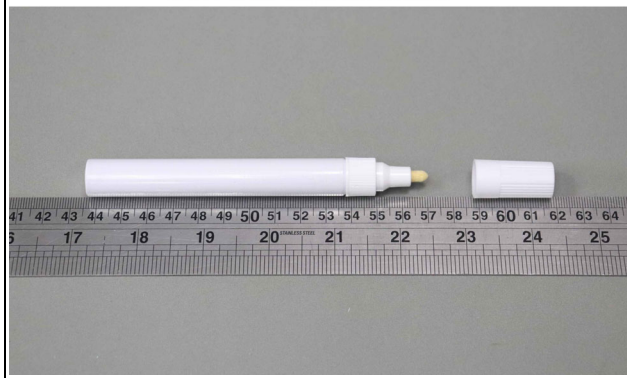
Description:

1. White liquid of sample. (inside the marker)

Note:

1. mg/kg = ppm; 0.1% = 1000ppm
2. N.D. = Not Detected = Less than RL
3. RL = Reporting Limit
4. “-“ = Not Regulated
5. "---" = Not Conducted
6. As per client's request, test specified material only
7. The content of this report is invalid if it is not presented as the entire report.
8. The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.
9. The chemical test was conducted at SGS Taiwan Ltd. Chemical Laboratory-Taipei.

Sample picture (As received)

HTY24A00029

SGS authenticate the photo on original report only

**** End of Report ****

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