

CPST

Test Report

No. C210518064005-1

Date: May 21, 2021

Page 1 of 7

Applicant: Dongguan Iijing Printing materials Co., LTD.

Applicant Address: Jiean industrial park Mawu village Changping town Dongguan city Guangdong province China.

The following samples were submitted and identified on behalf of the clients as

Sample Name: Water-Silicon dioxide ink
Manufacturer: Dongguan Iijing Printing materials Co., LTD.
Manufactured Address: Jiean industrial park Mawu village Changping town Dongguan city Guangdong province China.
CPST Internal Reference No.: C210518064
Sample Received Date: May 18, 2021
Test Period: May 18, 2021 to May 21, 2021
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

CONCLUSION :

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
Water-Silicon dioxide ink	1.Migration of certain elements—The European Standard for safety of toys EN 71-3:2019	PASS
	2.Phthalates Content	See the result

Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

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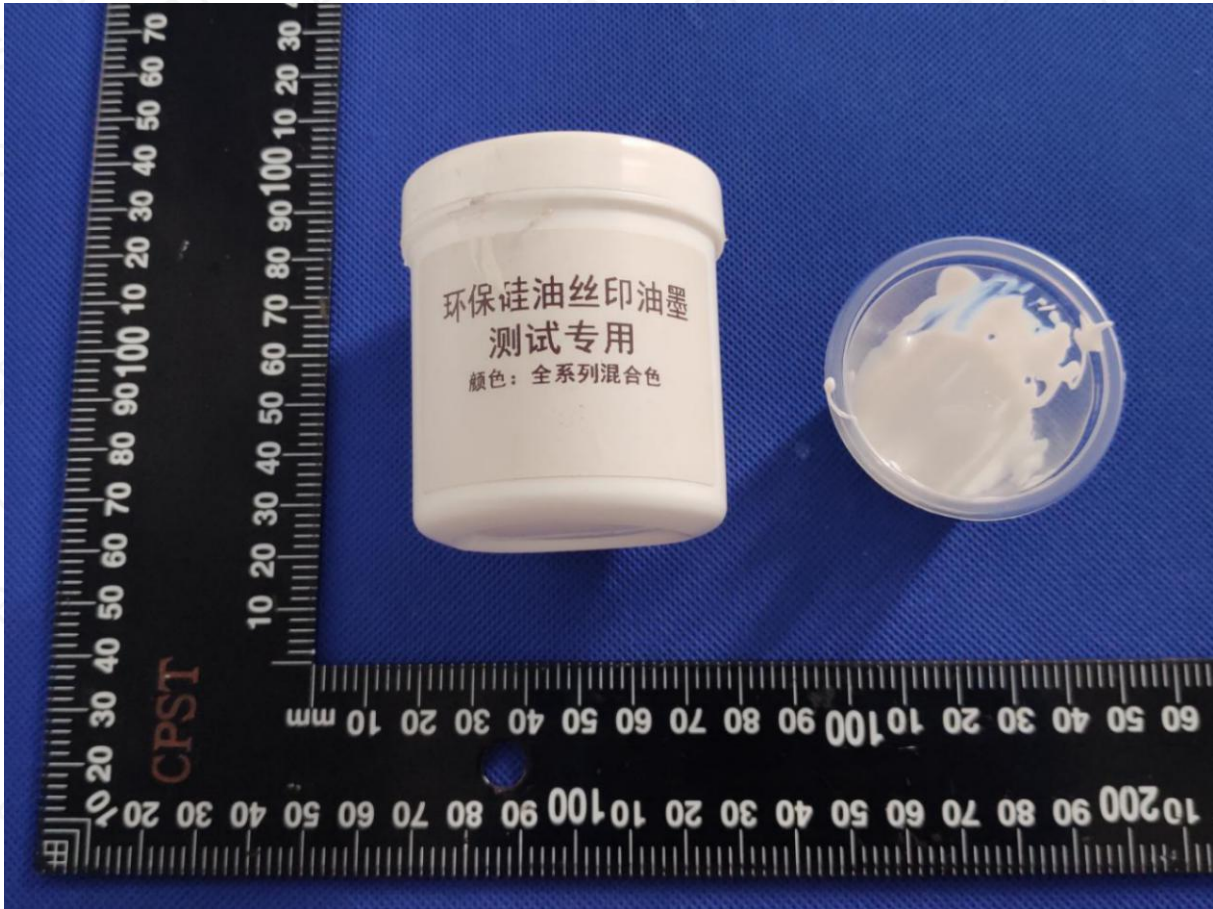
APPROVED BY:

Will Pan

Pan Jian Ding, Will
Technical Supervisor

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Photo of the Submitted Sample



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Test Result(s):

Description of Specimen : White liquid

1. Migration of certain elements—The European Standard for safety of toys EN 71-3:2019

Test Method: With reference to EN 71-3:2019, analysis was performed by Instruments.

Test Items	Unit	Result	MDL
		Category III	
Soluble Aluminum(Al)	mg/kg	10	5
Soluble Antimony(Sb)	mg/kg	N.D.	0.02
Soluble Arsenic(As)	mg/kg	N.D.	0.02
Soluble Barium(Ba)	mg/kg	N.D.	5
Soluble Boron(B)	mg/kg	N.D.	5
Soluble Cadmium(Cd)	mg/kg	N.D.	0.05
Soluble trivalent chromium(Cr ³⁺)	mg/kg	N.D.	0.05
Soluble hexavalent chrome(Cr ⁶⁺)	mg/kg	N.D.	0.02
Soluble Cobalt (Co)	mg/kg	N.D.	0.02
Soluble Copper (Cu)	mg/kg	N.D.	5
Soluble Lead (Pb)	mg/kg	N.D.	0.05
Soluble Manganese (Mn)	mg/kg	N.D.	5
Soluble Mercury (Hg)	mg/kg	N.D.	0.02
Soluble Nickel (Ni)	mg/kg	N.D.	0.05
Soluble Selenium (Se)	mg/kg	N.D.	0.2
Soluble strontium (Sr)	mg/kg	N.D.	5
Soluble Tin (Sn)	mg/kg	N.D.	5
Soluble Organotin	mg/kg	N.D.	0.1
Soluble Zinc (Zn)	mg/kg	N.D.	5
Conclusion	PASS		

Note:

1. mg/kg =milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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Annex

Soluble Element	Limit (mg/kg)		
	Category I	Category II	Category III
	Dry, brittle, powder-like or pliable toy material	Liquid or sticky toy material	Scraped-off toy material
Soluble Aluminum(Al)	2250	560	28130
Soluble Antimony(Sb)	45	11.3	560
Soluble Arsenic(As)	3.8	0.9	47
Soluble Barium(Ba)	1500	375	18750
Soluble Boron(B)	1200	300	15000
Soluble Cadmium(Cd)	1.3	0.3	17
Soluble trivalent chromium(Cr ³⁺)	37.5	9.4	460
Soluble hexavalent chrome (Cr ⁶⁺)	0.02	0.005	0.053
Soluble Cobalt (Co)	10.5	2.6	130
Soluble Copper (Cu)	622.5	156	7700
Soluble Lead (Pb)	2.0	0.5	23
Soluble Manganese (Mn)	1200	300	15000
Soluble Mercury (Hg)	7.5	1.9	94
Soluble Nickel (Ni)	75	18.8	930
Soluble Selenium (Se)	37.5	9.4	460
Soluble strontium (Sr)	4500	1125	56000
Soluble Tin (Sn)	15000	3750	180000
Soluble Organotin	0.9	0.2	12
Soluble Zinc (Zn)	3750	938	46000

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2. Phthalates Content

Test Method: With reference to US EPA 3540C:1996&US EPA 8270D:2014, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Results	MDL
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	0.005
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	0.005
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	0.005
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	0.010
Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1	%(w/w)	N.D.	0.010
Diisooctyl ortho- phthalate(DIOP)	27554-26-3	%(w/w)	N.D.	0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%(w/w)	N.D.	0.005
Dinheptyl ortho- phthalate(DHP)	3648-21-3	%(w/w)	N.D.	0.005
Di-iso-butyl ortho-phthalate(DIBP)	84-69-5	%(w/w)	N.D.	0.005
Dimethyl phthalate (DMP)	131-11-3	%(w/w)	N.D.	0.005
Diethyl phthalate (DEP)	84-66-2	%(w/w)	N.D.	0.005
Di-propyl ortho- phthalate(DPrP)	131-16-8	%(w/w)	N.D.	0.005
Di-n-octyl phthalate (DNOP)	117-84-0	%(w/w)	N.D.	0.005
Bis(2-ethylhexyl)adipate Or Di-(2-ethylhexyl) adipate (DEHA)	103-23-1	%(w/w)	N.D.	0.005
Di-n-pentyl phthalate, DnPP	131-18-0	%(w/w)	N.D.	0.005

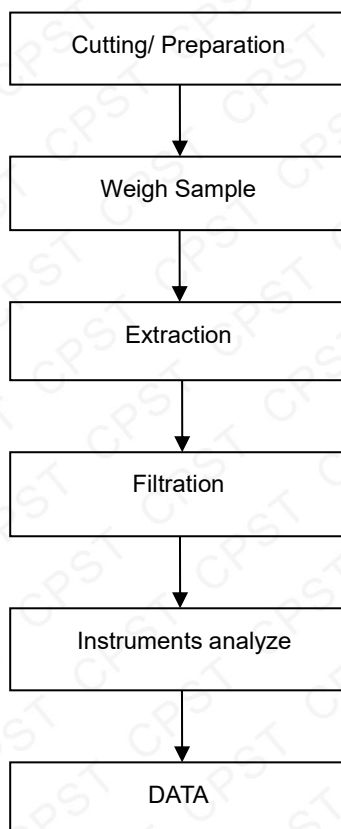
Note:

1. % = percentage by weight.
2. 0.0001% = 1 mg/kg.
3. MDL = Method Detection Limit.
4. N.D. = Not Detected (< MDL).

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

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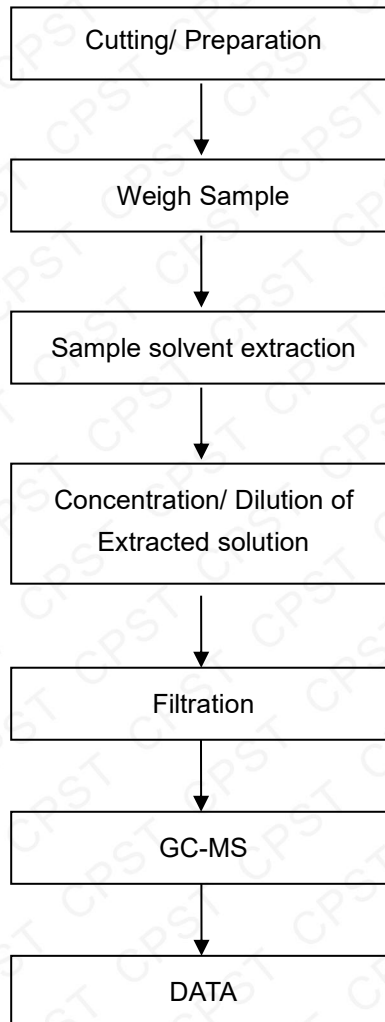
Migration of certain elements Testing Flow Chart



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Phthalates Testing Flow Chart



*** End of Report ***

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