ZHENGZHOU JETERA-UV DIGITAL
SCIENCE& TECHNOLOGY CO., LTD
RM.316, 2 BUILDING, NO.1356 HANGHAI EAST ROAD,
ZHENGZHOU ECONOMIC& TECH. DEVELOPMENT ZONE, CHINA

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

UV-LED CURABLE INKJET INK

Sample Receiving Date : MAY 13, 2016

Testing Period : MAY 13, 2016 TO MAY 19, 2016

Test Requested		**Conclusion**
1.	Phthalates	PASS
2.	Heavy elements content	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 Hardlines

Feng Shaohong, Jessica
Lab Manager

Results:

1. Phthalates Content

Method: With reference to CPSC-CH-C1001-09.3
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Accessible Parts:

Test Item(s)	**CAS No.**	**Result(s) (%)**		**MDL (%)**
Specimen No.	**--**	**1**	**2**	
Alias No.	**--**	1	1	
Tracing No.	**--**	1	2	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	0.003
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010
Di-n-Hexyl phthalate (DHP/DnHP)	84-75-3	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPenP)	131-18-0	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003
Conclusion		Pass/	Pass	--

Test Item(s)	CAS No.	Result(s) (%)		MDL (%)
Specimen No.	--	**3**	**4**	
Alias No.	--	1	1	
Tracing No.	--	3	4	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	0.003
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010
Di-n-Hexyl phthalate (DHP/DnHP)	84-75-3	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPenP)	131-18-0	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003
Conclusion		Pass	Pass	--

Test Item(s)	CAS No.	Result(s) (%)	MDL (%)
Specimen No.	--	**5**	
Alias No.	--	1	
Tracing No.	--	5	
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	0.003
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010
Di-n-Hexyl phthalate (DHP/DnHP)	84-75-3	ND	0.003
Di-n-pentyl phthalate (DPP/DPenP)	131-18-0	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.003
Conclusion		Pass	--

Specimen Description:

1. White ink
2. Yellow ink
3. Magenta ink
4. Cyan ink
5. Black ink

Note:
- % = percentage by weight
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- Results shown as ND are ignored in the sum calculation
- Result(s) of specimen No.1 - No.5 is(are) calculated based on the status as received.

2. Heavy elements content

Method: Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Direct Mercury Analyzer (DMA)

Test Item(s)	Total Result(s) (ppm)			MDL (ppm)	Total Limit (ppm)
	1	2	3		
Total Aluminium (Al)	ND	ND	ND	14000	70000
Total Antimony (Sb)	ND	ND	ND	10	60
Total Arsenic (As)	ND	ND	ND	10	25
Total Barium (Ba)	ND	ND	ND	10	500
Total Boron (B)	ND	ND	ND	3000	15000
Total Cadmium (Cd)	ND	ND	ND	5	56/17**
Total Chromium (Cr)	ND	ND	ND	5	60
Total Cobalt (Co)	ND	ND	ND	30	130
Total Copper (Cu)	ND	ND	ND	1500	7700
Total Lead (Pb)	ND	ND	ND	10	20
Total Manganese (Mn)	ND	ND	ND	3000	15000
Total Mercury (Hg)	ND	ND	ND	1	10
Total Nickel (Ni)	ND	1250	ND	100	7500
Total Selenium (Se)	ND	ND	ND	10	460
Total Strontium (Sr)	ND	ND	ND	10000	56000
Total Tin (Sn)	ND	ND	ND	12	12
Soluble Organic Tin --	--	--	--	--	--
Total Zinc (Zn)	ND	ND	ND	9000	46000

Test Item(s)	Total Result(s) (ppm)		MDL (ppm)	Total Limit (ppm)
	4	5		
Total Aluminium (Al)	ND	ND	14000	70000
Total Antimony (Sb)	ND	ND	10	60
Total Arsenic (As)	ND	ND	10	25
Total Barium (Ba)	ND	ND	10	500
Total Boron (B)	ND	ND	3000	15000
Total Cadmium (Cd)	ND	ND	5	56/17**
Total Chromium (Cr)	ND	ND	5	60
Total Cobalt (Co)	ND	ND	30	130
Total Copper (Cu)	ND	ND	1500	7700
Total Lead (Pb)	ND	ND	10	20
Total Manganese (Mn)	ND	ND	3000	15000
Total Mercury (Hg)	ND	ND	1	10
Total Nickel (Ni)	ND	ND	100	7500
Total Selenium (Se)	ND	ND	10	460
Total Strontium (Sr)	ND	ND	10000	56000
Total Tin (Sn)	ND	ND	12	12
Soluble Organic Tin --	--	--	--	--
Total Zinc (Zn)	ND	ND	9000	46000

Specimen Description:

1. White ink
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Remark 1: ** If total Cadmium content is higher than 17ppm but less than 56ppm, soluble method 1 testing is required. In addition, if the total Cadmium content is higher than 56ppm, soluble method 1 testing is not required, the material is failed total Cadmium limit.

Remark 2: No migration of elements test is conducted in case of the total content results do not exceed relevant total limits.

Note:
- ppm = parts per million
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- Result(s) of specimen No.1 - No.5 is(are) calculated based on the status as received.

Sample Photo:

SGS authenticate the photo on original report only

*** End of Report ***