

Test Report

No.: SHAEC25002804203

Date: Feb 25, 2025

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Client Name: HANG ZHOU TOKA INK CO,LTD

Client Address: NO.2,THE 5TH AVENUE(SOUTH),BAIYANG JIE DAO,HANGZHOU
ECONOMIC&TECHNOLOGICAL DEVELOPMENT AREA

Sample Name: UV (BEST CURE) MIXTURE INKS

Client Ref. Information: UV 161、UV VP、UV HY-BD、UV SUP、UV YQ15-NT、UV YQ69-NT、UV LHP、UV NEW HZ、UV HZ、UV L CARTON、UV LS、UV NH、UV NH (H)、UV KFI、UV 171、UV CS、UV RNC、UV NVR、UV BF、UV PFP-NT、UV PANTONE、UV G-PACK、UV TPU01、UV SF、UV DT、UV KY、UV HF、UV NHF、UV NHF-LED、UV NT、UV CHP、UV BG、UV QYS-NT、UV KTP、UV DG、UV HC、UV NEW HF、UV HL、UV HJ、UV YL-NT、UV ASP、UV NT (XY)、UV GCP、UV SJ、UV HN-DZ、UV WL、UV INCARD、UV SCREEN、UV K-HS、UV OFS、UV LED、UV 161-LED、UV LES、UV TS、YT UV INK、UV CHD、UV ZH、UV SOYA、UV VNL、UV HT、UV FLEXO、UV YUNNAN BAIYAO、UV LeCard、UV ART、UV LeCure、LED UV HK/90、UV GP、UV GP-LED、UV ART、UV H-PACK、UV IJ、UV LC-LED、UV TK/KW/NO.7 OPV、UV HJK、UV MATT OPV、UV EMBOSS、UV NYD、UV ST、UV HAKURI OP VARNISH、UV EMBOSS BASE/SURFACE、UV NO.1,NO.3, NO.5,NO.6 SILVER、UV RICH GOLD/UV PALE GOLD、UV NO.2 CONTEX、UV UP-2 OPV、UV INKDRYINGAGENT、UV SLIPAGENT、UV LEVELINGAGENT、UV ABRASION RESISTANCE ADDITIVE、UV MPS、UV FLUORESCENT INK、UV WEB、UV LC-LED WEB、UV U-CARD、MontAge α、MontAge α WEB、MontAge α Melamine、UV Biomass、UV LC-LED RP、UV TP-LED、UV SWP、LED UV TIGER、UV DL-LED、UV HN-LED、UV HK、UV Label、UV LG LED、UV LEDTEK、LeCure ST、UV U-Card、UV TP-LED、UV HHC S、UV TK、UV P-STD、UV PL、UV DL、UV DL-LED、UV SWP、UV JC、UV TS、UV Label、UV HA、UV Galax、UV Galax(EU)、UV OFS K-HS、LED UV PRO(EU)、UV HC-LED、UV VNL-LEC、UV HT-DL、UV HT-YQ15。

The above sample(s) and information were provided by the client.

SGS Job No.: SHP25-003597

Sample Receiving Date: Feb 17, 2025

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

Tom Ni

Tom Ni
Approved Signatory

Scan to see the report



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Testing Period: Feb 17, 2025 ~ Feb 24, 2025
 Test Requested: Select test(s) as requested by the client.
 Test Method(s): Please refer to next page(s).
 Test Result(s): Please refer to next page(s).

Summary:

Formaldehyde	See Results
N, N-dimethylformamide (DMFa)	See Results
Phthalates	See Results
COMMISSION IMPLEMENTING DECISION (EU) 2023/740 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)	See Results
Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)	See Results
Bisphenol A	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA25-0028042-0001.C001	Black ink

Remarks:

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

Formaldehyde

Test Method: With reference to ISO 17226-1:2021, analysis was performed by HPLC-DAD.

Test Item(s)	Unit(s)	MDL	A1
Formaldehyde	mg/kg	5.0	ND

N, N-dimethylformamide (DMFa)

Test Method: With reference to US EPA 8270D:2014, analysis was performed by GC-MS.



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
N,N-dimethylformamide (DMFa)	68-12-2	mg/kg	5.0	65.0

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diphenyl Phthalate(DPhP)	84-62-8	mg/kg	50	ND
Dimethyl Phthalate(DMP)	131-11-3	mg/kg	50	ND
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	mg/kg	50	ND

COMMISSION IMPLEMENTING DECISION (EU) 2023/740 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1 ^o
Soluble Lead(Pb)	23	mg/kg	5	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND
Soluble Arsenic(As)	47	mg/kg	10	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND
Soluble Selenium(Se)	460	mg/kg	10	ND
Soluble Boron(B)	15000	mg/kg	50	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND
Soluble Strontium(Sr)	56000	mg/kg	50	116
Soluble Zinc(Zn)	46000	mg/kg	50	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1 [®]
Soluble Aluminum(Al)	28130	mg/kg	50	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND
Soluble Organic Tin*	12	mg/kg	-	ND

Notes:

(1) According to the Commission Implementing Decision (EU) 2023/740 of April 5, 2023, published in the OJEU. The EN 71-3:2019+A1:2021 is adopted as the harmonized standard for toys drafted in support of Directive 2009/48/EC.

(2) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(3) *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 EN 71-3:2019+A1:2021.

(4) ☞De-waxing was applied (excluding analysis of organic tin) on test specimen.

Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)

Test Method: With reference to SGS in house method, analysis was performed by LC-MS.

Test Item(s)	Unit(s)	MDL	A1
Nonylphenol Ethoxylates (NPEOs)	mg/kg	50	ND
Octylphenol Ethoxylates (OPEOs)	mg/kg	50	ND
Nonylphenol (NP)	mg/kg	50	ND
Octylphenol (OP)	mg/kg	50	ND

Bisphenol A

Test Method: With reference to US EPA 3550C:2007, analysis was performed by LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Bisphenol A(BPA)	80-05-7	mg/kg	1.0	ND

The result is reported based on the sample after drying for 18 hours in oven.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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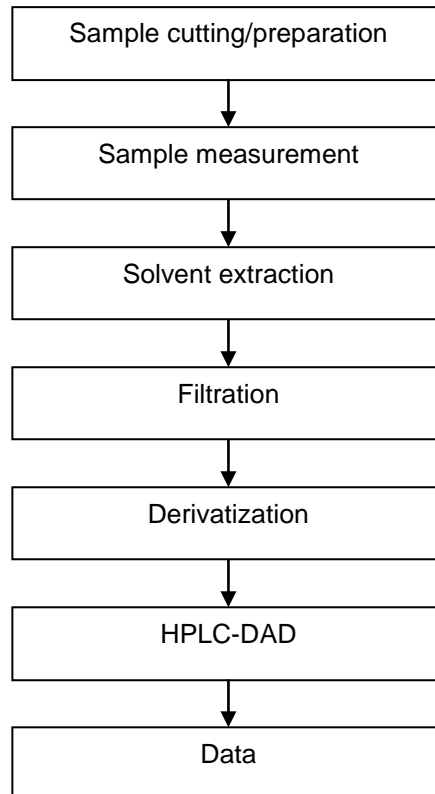
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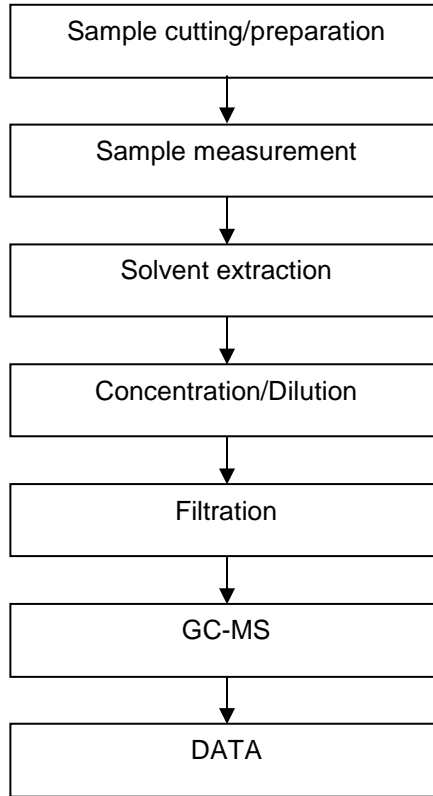
Formaldehyde Testing Flow Chart



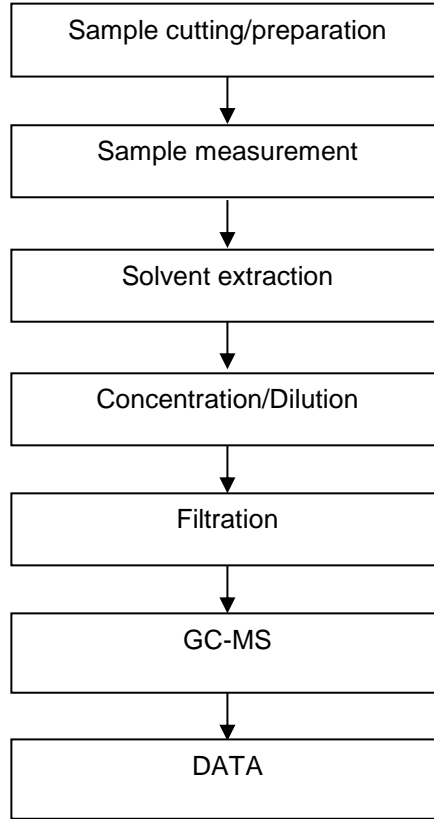
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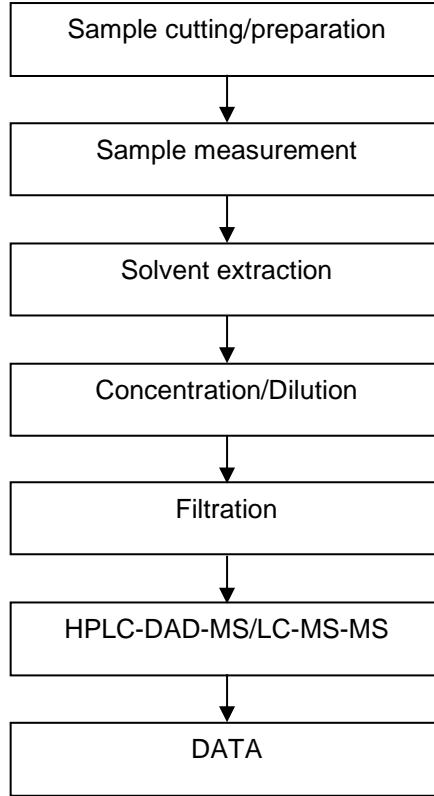
DMF (N, N-dimethylformamide) Testing Flow Chart



Phthalates Testing Flow Chart



Bisphenols Testing Flow Chart



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Sample Photo:



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