

Test Report

No. SHAEC2102923215

Date: 05 Mar 2021

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HANG ZHOU TOKA INK CO,LTD

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

The following sample(s) was/were submitted and identified on behalf of the clients as : UV (BEST CURE) MIXTURE INKS

SGS Job No. : SP21-004147 - SH

Model No. : 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 INK DRYING AGENT、UV SLIP AGENT、UV LEVELING AGENT、UV ABRASION RESISTANCE ADDITIVE、UV MPS、
UV FLUORESCENT INK、UV WEB、LC-LED WEB、UV U-CARD、MontAge α、MontAge α WEB、MontAge α、UV Biomass MIXTURE。

Composition : INK

Date of Sample Received : 23 Feb 2021

Testing Period : 23 Feb 2021 - 26 Feb 2021

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).



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

Sue Sheng

Sue Sheng
Approved Signatory

scan to see the report



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-029232.004	Black ink

Remarks :

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

EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category III:for scrapped-off toy material)

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

Test Item(s)	Limit	Unit	MDL	004
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND
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) (Cr III)	460	mg/kg	5	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	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND
Soluble Aluminum (Al)	70000	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 :



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(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 EN 71-3:2019.

Tetrabromobisphenol A (TBBP-A)

Test Method : With reference to US EPA 3540C: 1996, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Formaldehyde

Test Method : With reference to ISO 17226-1:2018, analysis was performed by HPLC-DAD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Formaldehyde	mg/kg	16	ND

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalates

Test Method : With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0	mg/kg	50	ND
	/68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0	mg/kg	50	ND
	/68515-49-1			
Dihexyl Phthalates (DHP, DHxP)	84-75-3	mg/kg	50	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND
Diethyl Phthalates (DEP)	84-66-2	mg/kg	50	ND



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Test Item(s)	CAS NO.	Unit	MDL	004
Dimethyl Phthalates (DMP)	131-11-3	mg/kg	50	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	mg/kg	50	ND
Diisoheptyl phthalate (DIHP)	71888-89-6	mg/kg	50	ND
Diisopentylphthalate (DiPP)	605-50-5	mg/kg	50	ND
Diphenyl Phthalates (DPhP)	84-62-8	mg/kg	50	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	68515-42-4	mg/kg	50	ND

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to CEN/TS 15968:2010, analysis is performed by HPLC-MS or LC-MS-MS.

Test Item(s)	CAS NO.	Unit	MDL	004
Perfluorooctane sulfonates (PFOS) and its derivatives		mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)- ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	0.01	ND

Notes :

- (1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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

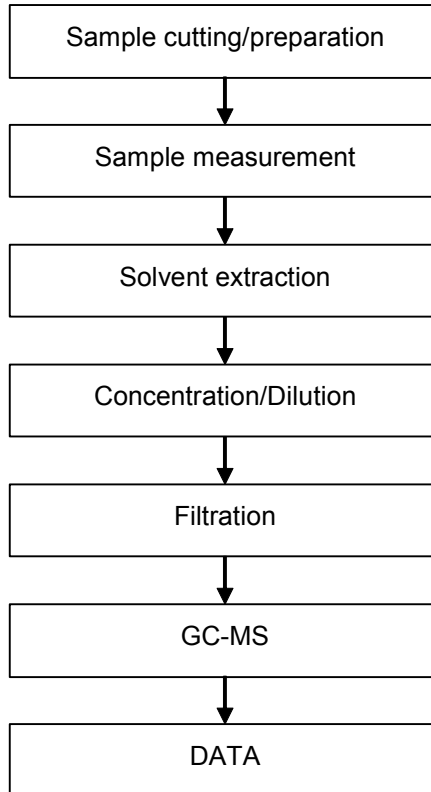


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Phthalates Testing Flow Chart

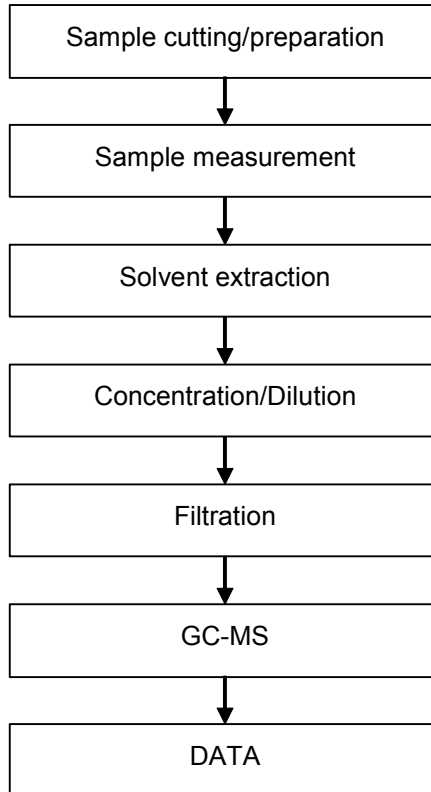


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HBCDD Testing Flow Chart

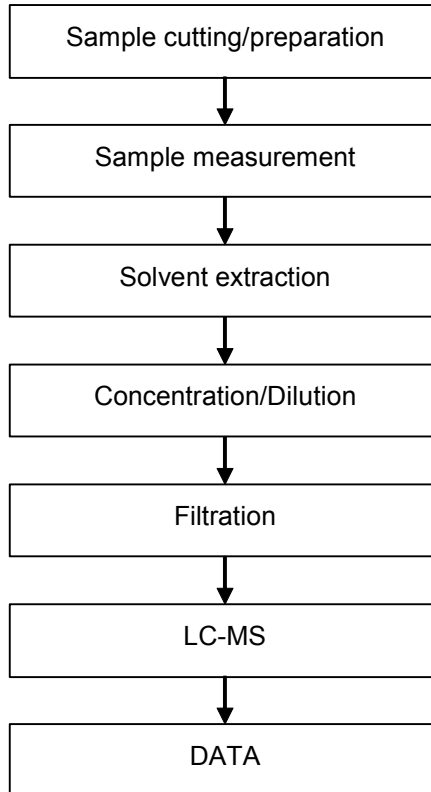


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PFOS/PFOA Testing Flow Chart

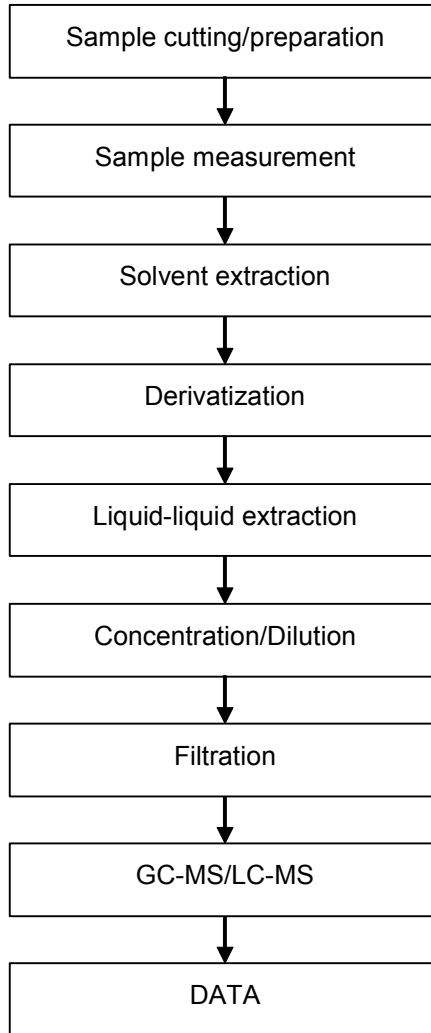


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TBBP-A Testing Flow Chart

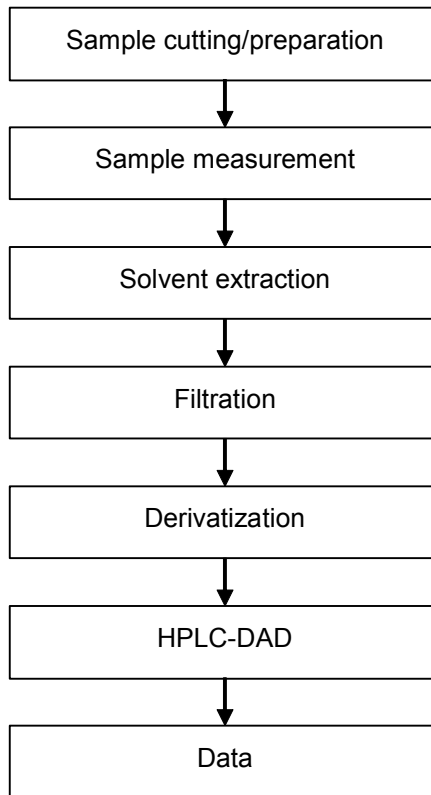


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Formaldehyde Testing Flow Chart



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