

Test Report

No. CANEC1805085718

Date: 20 Apr 2018

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ZHANGZHOU YINMEI PRINTING INK CO.,LTD

DONGCHE VILLAGE, HUOTIAN TOWN, YUNXIAO COUNTY, ZHANGZHOU CITY, FUJIAN PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Ink

SGS Job No. : CP18-013721 - GZ
Model No. : G004
Lot No. : 20180116-2
Client Ref. Info. : Color:01100, 10200, 20301, 21000, 30010, 30302H, 30731, 31580, 40100,
40800, 4097, 50000 mixture
Date of Sample Received : 26 Mar 2018
Testing Period : 26 Mar 2018 - 09 Apr 2018
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).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Violet, Shi
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-050857.002	Black ink

Remarks :

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

Azo Dyes

Test Method : With reference to BS EN 14362-1:2012 Annex F – Analysis was conducted with GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to EN14362-3:2012 ,, analysis was conducted with GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	002
4-Aminobiphenyl	92-67-1	mg/kg	10	ND
Benzidine	92-87-5	mg/kg	10	ND
4-chloro-o-toluidine	95-69-2	mg/kg	10	ND
2-naphthylamine	91-59-8	mg/kg	10	ND
o-aminoazotoluene	97-56-3	mg/kg	10	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	10	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
4-chloroaniline	106-47-8	mg/kg	10	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	10	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	10	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	10	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	10	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	10	ND
3,3'-Dimethyl-4,4'-diaminodiphe nylmethane / 4,4'-methylenedi-o-toluidine p-cresidine	838-88-0	mg/kg	10	ND
4,4'-methylene-bis- (2-chloroaniline)	120-71-8	mg/kg	10	ND
4,4'-oxydianiline	101-14-4	mg/kg	10	ND
4,4'-oxydianiline	101-80-4	mg/kg	10	ND
4,4'-thiodianiline	139-65-1	mg/kg	10	ND
o-toluidine	95-53-4	mg/kg	10	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	10	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	10	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
4-aminoazobenzene	60-09-3	mg/kg	10	ND
O-Anisidine	90-04-0	mg/kg	10	ND
2,4-Xylidine	95-68-1	mg/kg	10	ND
2,6-Xylidine	87-62-7	mg/kg	10	ND

Notes :

(1) The BS EN 14362-1:2012 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of EN14362-3:2012 was employed to verify the presence of 4 aminoazobenzene.

(2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Remark: The result(s) shown is/are of the total weight of wet sample.



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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

