

SUZHOU ACCUM PACKAGING CO., LTD.  
ZHUJIABANG VILLAGE, ZHENZE TOWN, WUJIANG DISTRICT, SUZHOU CITY, JIANGSU PROVINCE, CHINA

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

Sample Description : PRINTED PAPER CUPS  
Style / Item No. : 7.5OZ/8OZ  
Manufacturer : SUZHOU ACCUM PACKAGING CO., LTD.  
Country of Origin : CHINA  
Test Performed : Selected test(s) as requested by applicant  
Sample Receiving Date : Jun 27, 2018  
Test Performing Date : Jun 27, 2018 to Jul 13, 2018  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
Guangzhou Branch,  
SGS-CSTC Ltd.

Shiny Hu  
Approved Signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.  
Guangzhou Branch Testing Center Headlines

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**I . SGS Ref No.: CAN18-129417**

Test Requested	Result
To determine Total Lead(Pb), Cadmium(Cd), Mercury(Hg) and Hexavalent Chromium(CrVI) contents in the submitted sample(s) in accordance with European Council Directive 94/62/EC – Article 11 that effective June 2001 and its amendment.	PASS

Test Results:

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-129417.001	Light beige paper with grayish green, red & black printing

Remarks :

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

**European Directive 94/62/EC and its amendments - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content**

Test Method : With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	-	mg/kg	5	ND
Lead (Pb)	-	mg/kg	5	ND
Hexavalent Chromium (CrVI)	-	mg/kg	8	ND
Mercury (Hg)	-	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND



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Sample photo:



Product Photo

### II. SGS Ref No.: CANHG1812930501

Result Summary :

#### Test Requested

#### Conclusion

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Migration of optical blueing agents	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation –Preserving effect	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation–Specific migration of Benzophenone and 4-methylbenzophenone	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable formaldehyde	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable heavy metals	PASS



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation– Pentachlorophenol (PCP) content	PASS
Council of Europe Resolution AP (2002) 1 –Pentachlorophenol (PCP) content	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and BfR recommendation – Phthalates	PASS
Council of Europe Resolution AP (2002) 1 –Extractable heavy metals	PASS

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN18-129305.001	White paper cup w/ transparent film & multicolor printing	plastic + film

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Migration of optical blueing agents**

Test Method : With reference to BS EN 648:2006 Procedure A (long duration contact)/ Procedure B (short time contact) , analysis was performed by UV lamp.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
3% Acetic acid (W/V) aqueous solution	24hr(s)	23±2°C	★	Grade 5	PASS

Notes :

- ★=Grade 5.
- Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS
50% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter  
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup> or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation –Preserving effect**

Test Method : With reference to EN 1104:2005.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Aspergillus niger ATCC 6275	★	Absent
Bacillus subtilis ATCC 6633	★	Absent
<b>Comment</b>		<b>PASS</b>

Notes :

1. ★ = Absence of zone inhibition
2. Absent denotes absence of Antimicrobial constituents.  
Present denotes presence of Antimicrobial constituents .



**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test**

Test Method : With reference to DIN10955:2004,direct contact method.  
No.of panelist:6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test media	-	Distilled water
Test Temperature (°C)	-	70
Test time (hr)	-	2
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
<b>Comment</b>		<b>PASS</b>

Notes :

- Intensity scale (rounded at 0.5):  
 0 – no perceptible difference  
 1 – just perceptible difference  
 2 – slight difference  
 3 – marked difference  
 4 – strong difference

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation–Specific migration of Benzophenone and 4-methylbenzophenone**

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by GC-MS.

**Sample 001**

Simulant Used : Rectified olive oil  
 Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of Benzophenone	0.6	mg/kg	0.2	ND
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
<b>Comment</b>				<b>PASS</b>



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Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable formaldehyde**

Test Method : With reference to BS EN1541:2001 & EN647:1993 (hot water extraction), analysis was performed by UV- Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable formaldehyde	1	mg/dm <sup>2</sup>	0.1	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable heavy metals**

Test Method : With reference to EN647:1993 (hot water extraction), analysis was performed by ICP-MS and LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Cadmium	5	µg/L	2	ND
Extractable Lead	10	µg/L	5	ND
Extractable Chromium (VI)	Absent	mg/dm <sup>2</sup>	0.004	ND
Extractable Chromium (III)	0.004	mg/dm <sup>2</sup>	0.004	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram
2. mg/dm<sup>2</sup> = milligram per square decimeter
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
5. Extractable Chromium (III)= Extractable Total Chromium- Extractable Chromium (VI)



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**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation– Pentachlorophenol (PCP) content**

Test Method : With reference to With reference to § 64 LFGB BVL B 82.02.8 – 2001, analysis was performed by GC-ECD or GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

**Council of Europe Resolution AP (2002) 1 –Pentachlorophenol (PCP) content**

Test Method : With reference to ISO 17070:2015, analysis was performed by GC-ECD or GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentachlorophenol(PCP)	0.15	mg/kg	0.05	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)



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**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and BfR recommendation –Phthalates**

Test Method : Solvent extraction (GZTC CHEM-TOP-042-05), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	0.05	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%(w/w)	0.01	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	0.1	%(w/w)	0.01	ND

**Comment**

**PASS**

Notes :

1. % = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

**Council of Europe Resolution AP (2002) 1 –Extractable heavy metals**

Test Method : With reference to EN647:1993 (hot water extraction), analysis was performed by ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Cadmium	0.002	mg/dm <sup>2</sup>	0.001	ND
Extractable Mercury	0.002	mg/dm <sup>2</sup>	0.001	ND
Extractable Lead	0.003	mg/dm <sup>2</sup>	0.002	ND

**Comment**

**PASS**

Notes :

1. mg/dm<sup>2</sup>= milligram per square decimeter
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)



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\*\*\*End of Report\*\*\*

