

No. CANEC1402530704

Date: 19 May 2014

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

SGS Job No.:

CP14-008898 - GZ

Model No.:

LV-11FG-01

Date of Sample Received:

06 Mar 2014

Testing Period:

06 Mar 2014 - 12 May 2014

Test Requested:

Selected test(s) as requested by client.

Test Method : Test Results : Please refer to next page(s). Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration in specified foodstuffs	PASS
Council of Europe Resolution AP (2004) 5 – Overall migration in specified foodstuffs	PASS
Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Heavy Metal	PASS
European Commission Regulation 1895/2005/EC -Specific Migration of BADGE, BADGE Derivatives, BFDGE and NOGE	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with amendments, Section 30 & 31 and hence Article 3 of European Regulation No. 1935/2004 – Extractable Heavy Metals	PASS

Signed for and on behalf of

SGS-CSTC Ltd.

Alpher Qiu

Approved Signatory

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and this document cannot be used for publicity without approval of the Company.



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Test Results:

### **Test Part Description:**

Specimen No.	SGS Sample ID	Description	Material
			(claimed by the client)
SN1	CAN14-025307.001	Transparent plastic cup	PS
SN2	CAN14-025307.002	White silicone rubber	silicone rubber
SN3	CAN14-025307.004	LED transparent shell	plastic+coating
SN4	CAN14-025307.005	Silvery plated metal	metal+plating

# Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments—Overall migration in specified foodstuffs

Test Requested: As specified by client, to determine Overall migration from plastic used in contact with food for

compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with

amendments.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test method;

or EN1186-9:2002 aqueous food simulants by article filling method.

Simulant Used	<u>Time</u>	<b>Temperature</b>	Max. Permissible	Result of 001	Comment
			<u>Limit</u>	Overall Migration	
Distilled Water	1.0hr(s)	40°C	10mg/dm²	<3.0mg/dm²	PASS
3% Acetic Acid (W/V) Aqueous Solution	1.0hr(s)	40°C	10mg/dm²	<3.0mg/dm²	PASS
50% Ethanol (V/V) Aqueous Solution	1.0hr(s)	40°C	10mg/dm <sup>2</sup>	<3.0mg/dm²	PASS

#### Notes:

- 1. mg/dm² =milligram per square decimeter
- 2. °C = degree Celsius
- 3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

### Council of Europe Resolution AP (2004) 5 - Overall migration in specified foodstuffs

Test Requested: As specified by client, to determine Overall migration from silicone rubber used in contact with

food for compliance with Council of Europe Resolution AP (2004) 5.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test method;

or EN1186-3:2002 aqueous food simulants by total immersion method;



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Simulant Used	<u>Time</u>	<u>Temperature</u>	Max. Permissible <u>Limit</u>	Result of 002 Overall Migration	Comment
Distilled Water	1.0hr(s)	40°C	10mg/dm²	<3.0mg/dm²	PASS
3% Acetic Acid (W/V) Aqueous Solution	1.0hr(s)	40°C	10mg/dm²	<3.0mg/dm²	PASS
50% Ethanol (V/V) Aqueous Solution	1.0hr(s)	40°C	10mg/dm²	<3.0mg/dm²	PASS

#### Notes:

- 1. mg/dm² =milligram per square decimeter
- 2. °C = degree Celsius
- 3. Permissible Limit is according to Council of Europe Resolution AP (2004) 5.

### Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments—Specific Migration of Heavy Metal

Test Requested : As specified by client, to determine Specific Migration of Heavy Metal from plastic used in

contact with food for compliance with Commission Regulation (EU) No 10/2011 of 14 January

2011 with amendments.

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

ICP-OES.

#### Sample 001

Test Condition :

Simulant Used: 3% Acetic Ac

3% Acetic Acid (W/V) Aqueous Solution 40 °C 1.0 hr(s)

Test Item(s) Max. Permissible **Unit** MDL Test result <u>Limit</u> Extractable Barium mg/kg 0.25 ND **Extractable Cobalt** 0.05 mg/kg 0.01 ND Extractable Copper 5 mg/kg 0.25 ND Extractable Iron 48 mg/kg 0.25 ND Extractable Lithium 0.6 mg/kg 0.5 ND

Notes:

Comment

- 1. mg/kg = milligram per kilogram of foodstuff in contact with
- 2. °C = degree Celsius



Extractable Manganese

Extractable Zinc

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0.6

25

mg/kg

mg/kg

0.25

0.5

ND

ND

**PASS** 

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- 3. MDL=Method Detection Limit
- 4. ND= Not Detected(less than MDL)
- 5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

# European Commission Regulation 1895/2005/EC -Specific Migration of BADGE, BADGE Derivatives, BFDGE and NOGE

Test Requested:

As specified by client, to determine Specific Migration of BADGE, BADGE Derivatives, BFDGE and NOGE from Epoxy Coating used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and European Commission Regulation 1895/2005/EC.

Test Method: With reference to EN 15136:2006, analysis was performed by LC-MS.

### Sample 004

Simulant Used: 10% Ethanol (V/V) Aqueous Solution

Test Condition: 40 °C 1.0 hr(s)

Test Item(s)	Max. Permissible	Unit	MDL	Test result
<u>roschonijo</u>	Limit	Onne	MIDE	163t leaunt
Bisphenol A bis(2,3-dihydroxypropyl) ether (BADGE.2H2O)	-	mg/kg	0.2	ND
2,2-Bis-(4-glycidyloxyphenyl)propane (BADGE)	*	mg/kg	0.2	ND
Bisphenol A (2,3-dihydroxypropyl) glycidyl ether (BADGE.H2O)	<b>3</b> )	mg/kg	0.2	ND
Sum(BADGE.2H2O+ BADGE+ BADGE.H2O)	9	mg/kg	-	ND
Bisphenol-F DiGlycidyl Ether (BFDGE)	prohibited	mg/kg	0.2	ND
Bisphenol A bis(3-Chloro-2-hydroxypropyl) ether (BADGE.2HCI)	-1	mg/kg	0.2	ND
Bisphenol A (3-chloro-2-hydroxypropyl) glycidyl ether (BADGE.HCl)	-	mg/kg	0.2	ND
Bisphenol A (3-choloro-2-hydroxypropyl)- (2,3-dihydroxypropyl) ether (BADGE.H2O.HCl)	-	mg/kg	0.2	ND
Sum(BADGE.2HCI+ BADGE.HCI+ BADGE.H2O.HCI)	1	mg/kg	-	ND
3-Ring NOGE (Novolac glycidyl ether) mixture of isomers (NOGE)	prohibited	mg/kg	0.2	ND
Comment				PASS

# Sample 004

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution



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Test Condition:

40 °C 1.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Bisphenol A bis(2,3-dihydroxypropyl) ether	÷	mg/kg	0.2	ND
(BADGE.2H₂O)				
2,2-Bis-(4-glycidyloxyphenyl)propane (BADGE)	•	mg/kg	0.2	ND
Bisphenol A (2,3-dihydroxypropyl) glycidyl ether		mg/kg	0.2	ND
(BADGE.H₂O)				
Sum of (BADGE.2H <sub>2</sub> O+ BADGE+ BADGE.H <sub>2</sub> O)	9	mg/kg	-	ND
Bisphenol-F DiGlycidyl Ether (BFDGE)	prohibited	mg/kg	0.2	ND
Bisphenol A bis(3-Chloro-2-hydroxypropyl) ether	•	mg/kg	0.2	ND
(BADGE.2HCI)				
Bisphenol A (3-chloro-2-hydroxypropyl) glycidyl ether	-	mg/kg	0.2	ND
(BADGE.HCI)				
Bisphenol A (3-choloro-2-hydroxypropyl)-	-	mg/kg	0.2	ND
(2,3-dihydroxypropyl) ether (BADGE.H₂O.HCl)				
Sum of (BADGE.2HCI+ BADGE.HCI+	1	mg/kg	-	ND
BADGE.H₂O.HCI)				
3-Ring NOGE (Novolac glycidyl ether) mixture of	prohibited	mg/kg	0.2	ND
isomers (NOGE)				
Comment				PASS

## Sample 004

Simulant Used :

Distilled Water

Test Condition:

40 °C 1.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Bisphenol A bis(2,3-dihydroxypropyl) ether	-	mg/kg	0.2	ND
(BADGE.2H₂O)				
2,2-Bis-(4-glycidyloxyphenyl)propane (BADGE)	•	mg/kg	0.2	ND
Bisphenol A (2,3-dihydroxypropyl) glycidyl ether	-	mg/kg	0.2	ND
(BADGE.H₂O)				
Sum of (BADGE.2H <sub>2</sub> O+ BADGE+ BADGE.H <sub>2</sub> O)	9	mg/kg	-	ND
Bisphenol-F DiGlycidyl Ether (BFDGE)	prohibited	mg/kg	0.2	ND
Bisphenol A bis(3-Chloro-2-hydroxypropyl) ether	-	mg/kg	0.2	ND
(BADGE.2HCI)				
Bisphenol A (3-chloro-2-hydroxypropyl) glycidyl ether	12 (8)	mg/kg	0.2	ND
(BADGE.HCI)		152 5		
Bisphenol A (3-choloro-2-hydroxypropyl)-		mg/kg	0.2	ND
(2,3-dihydroxypropyl) ether (BADGE.H₂O.HCl)				



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Sum of (BADGE.2HCI+ BADBADGE.H₂O.HCI)	OGE.HCI+	1	mg/kg	:-	ND
3-Ring NOGE (Novolac glyc isomers (NOGE)	cidyl ether) mixture of	prohibited	mg/kg	0.2	ND
Comment					PASS

#### 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)
- 5. Permissible Limit is according to Commission Regulation (EC) No 1895/2005 of 18 November 2005.
- 6. Results shown were conducted by SGS SH LTD.

# German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with amendments, Section 30 & 31 and hence Article 3 of European Regulation No. 1935/2004 – Extractable Heavy Metals

Test Requested: As specified by client, to determine Extractable Heavy Metals from Metal or Metallic coating

used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with amendments, Section 30 & 31 and hence Article 3 of

European Regulation No. 1935/2004.

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

ICP-MS.

### Sample 005

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 40 °C 1.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Extractable Chromium	1	mg/kg	0.05	ND
Extractable Nickel	0.07	mg/kg	0.05	ND
Extractable Lead	0.02	mg/kg	0.01	ND
Extractable Cadmium	0.002	mg/kg	0.002	ND
Extractable Copper	5	mg/kg	0.1	ND
Extractable Cobalt	0.05	mg/kg	0.01	ND
Extractable Aluminium	2	mg/kg	0.2	ND
Extractable Manganese	0.60	mg/kg	0.25	ND
Comment				PASS

#### Notes:



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- 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)
- 5.# = Exceeds the limit

Remark: Results and photo(s) of in this report refer to test report CANEC1402530702.



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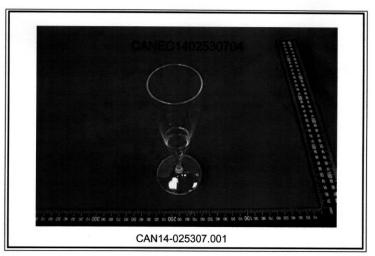


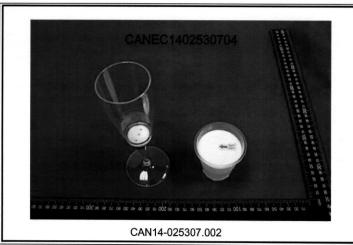
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Sample photo:







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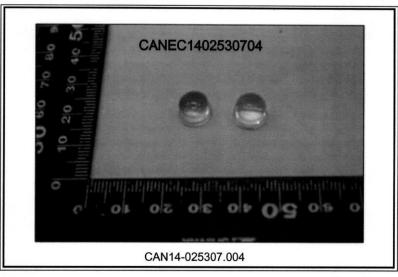
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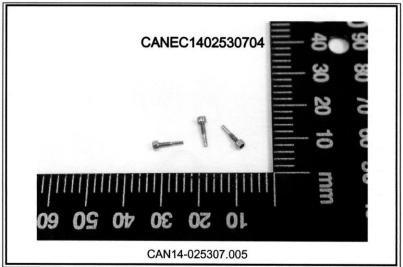


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