



**Test Report** No. RN16-27675.005-011 Revision 1 Date: 01042017 Page 1 of 16

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**EDITIONS DOUCET  
8 RUE FRANCIS JAMMES**

**65100 LOURDES**

The following sample(s) was/were submitted by the client as:

SGS Job No. : RN16-27675  
SGS Offer No. : DR16-7735  
Product Description : **JEWELLERY ITEMS**  
**REFERENCES: TP20B, TP20N, TP20T, TP21B, TP21N, TP21T, TP27A, TP27B, TP27C, TP27RS**

Date of Sample Received : 12122016  
Testing Period : 12122016 - 01032017

Test Result(s) : Please refer to next page(s).

Summary:

According to the specified scope and analytical techniques, concentrations of tested substances of annex XVII of REACH Regulation (EC) No 1907/2006 are:

- Entry 4: Tri(2,3-dibromopropyle)phosphate (TBPP) content  
TBPP has not been detected over the limit of quantification. The analyzed part of the article is compliant.
- Entry 7: Tris(1-aziridiny)phosphine oxide (TEPA) content  
TEPA has not been detected over the limit of quantification. The analyzed part of the article is compliant.
- Entry 8: Flame retardants, Polybromobiphenyl compounds (PBB) content  
PBB compounds have not been detected over the limit of quantification. The analyzed part of the article is compliant.
- Entry 20: Organotins content, the limit is 0.1% (w/w).  
The analyzed part of the article is compliant with the limit.
- Entry 23: Cadmium content, the limit is 0.01% (w/w).  
The analyzed part of the article is compliant with the limit.

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- Entry 27: Nickel release according to EN 1811:2011 + A1:2015, the limit is 0.2 µg/cm<sup>2</sup>/week in any post assemblies which are inserted into pierced parts of the human body and 0.5 µg/cm<sup>2</sup>/week in any articles intended to come into direct and prolonged contact with the skin.  
The analyzed part of the article is compliant with the limit. This comment is given on the worst case of the three realized trials.
- Entry 43: Azo dyes content, the limit is 0.003% (w/w) <sup>(1)</sup>  
The analyzed part of the article is compliant with the limit.
- Entry 45: Flame retardant, Octabromodiphenylether content, the limit is 0.1% (w/w).  
The analyzed part of the article is compliant with the limit.
- Entry 50: PAH content, the limit is 1 mg/kg for each PAH.  
The analyzed part of the article is compliant with the limit.
- Entry 61: Dimethylfumarate content, the limit is 0.1 mg/kg.  
The analyzed part of the article is compliant with the limit.
- Entry 63: Lead content, the limit is 0.05% (w/w).  
The analyzed part of the article is compliant with the limit.
- POP Regulation (EC) No 850/2004: Short Chain Chlorinated Paraffins (SCCP), the limit is 0.15%.  
The analyzed part of the article is compliant with the limit.

Signed for and on behalf of  
SGS Multilab  
Joris PRETEUX  
Tel. : 02 35 07 91 58

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## TEST SAMPLE

### Sample Description:

Material group	Component No.	Component Description	Photo
M	RN16-27675.005	WHITE GOLD METAL - References: TP20B, TP20N, TP20T, TP21B, TP21N, TP27A, TP27B, TP27C	
M	RN16-27675.006	YELLOW GOLD METAL - References: TP21T, TP27RS	
M	RN16-27675.007	MIX OF WHITE GOLD METAL + YELLOW GOLD METAL - All references	

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P	RN16-27675.008	MIX OF GREEN/BLACK/BLUE SILICONES - References: TP20B, TP20N, TP20T, TP21B, TP21N, TP21T	
P	RN16-27675.009	TRANSPARENT ELASTIC BAND - References: TP21B, TP21N, TP21T	
P/T	RN16-27675.010	MIX OF GREEN/BLACK/BLUE SILICONES + TRANSPARENT ELASTIC BAND + BLUE/PINK/BLACK CORDS - References: TP20B, TP20N, TP20T, TP21B, TP21N, TP21T, TP27A, TP27B, TP27RS	

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T	RN16-27675.011	MIX OF BLUE/PINK/BLACK CORDS - References: TP27A, TP27B, TP27RS	
---	----------------	---	--

M = Metal ; P = Plastic ; T = Textile

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### **TEST RESULTS – Annex XVII REACH Regulation (EC) No 1907/2006**

#### 1) Entry 4 of Annex XVII, Tri(2,3-dibromopropyle)phosphate (TBPP) content

##### a. Test according to house made method by LC-MS-MS

Substance Name	CAS No.	Unit	Results RN16-27675.011
Tri(2,3 dibromopropyle) phosphate	126-72-7	mg/kg	n.d.

Notes: n.d. = not detected  
mg/kg = milligram per kilogram  
Detection limit = 0.5 mg/kg

#### 2) Entry 7 of Annex XVII, Tris(1-aziridinyl)phosphine oxide content

##### a. Test according to house made method by GC-MS.

Substance Name	CAS No.	Unit	Results RN16-27675.011
Tris(1-aziridinyl)phosphine oxide	545-55-1	mg/kg	n.d.

Notes: n.d. = not detected  
mg/kg = milligram per kilogram  
Detection limit = 5 mg/kg

#### 3) Entry 8 of Annex XVII, Polybromobiphenyl (PBB) contents

##### a. Test according to IEC 62321 adapted (ME310: method by GC-MS).

Substance Name	Unit	Results RN16-27675.011
Sum of polybromobiphenyls	mg/kg	< 40
Monobromobiphenyls (expressed as BB-2, CAS 2113-57-7)	mg/kg	< 4
Dibromobiphenyls (expressed as BB-15, CAS 92-86-4)	mg/kg	< 4
Tribromobiphenyls (expressed as BB-30, CAS 59080-33-0)	mg/kg	< 8

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Substance Name	Unit	Results RN16-27675.011
Tetrabromobiphenyls (expressed as BB-49, CAS 60044-24-8)	mg/kg	< 4
Pentabromobiphenyls (expressed as BB-103, CAS 59080-39-6)	mg/kg	< 4
Hexabromobiphenyls (expressed as BB-153, CAS 59080-40-9)	mg/kg	< 4
Heptabromobiphenyls (expressed as BB-189, CAS 88700-06-5)	mg/kg	< 4
Octabromobiphenyls (expressed as BB-194, CAS 67889-00-3)	mg/kg	< 4
Nonabromobiphenyls (expressed as BB-206, CAS 69278-62-2)	mg/kg	< 8
Decabromobiphenyl (BB-209, CAS 13654-09-6)	mg/kg	< 40

Notes: < = less than  
mg/kg = milligram per kilogram

#### 4) Entry 20 of Annex XVII, Organostannic compounds content

##### a. Test according to house made method (ME354 : method by GC-MS)

Organostannic compounds	Results (% by weight of tin)	Recommended Max. Limit (% by weight of tin)
	RN16-27675.010	
Tributyltin (TBT) calculated as tin	n.d.	---
Triphenyltin (TPHT) calculated as tin	n.d.	---
Tricyclohexyltin (TCyT) calculated as tin	n.d.	---
Trioctyltin (TOT) calculated as tin	n.d.	---
Tripropyltin (TPT) calculated as tin	n.d.	---
Total	n.d.	0.1
Conclusion	Pass	---

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## 6) Entry 27 of Annex XVII, Nickel release

- a. Simulation of wear and corrosion according to EN 12472:2005 + A1:2009, followed by extraction according to EN 1811:2011+ A1:2015. Analysis by ICP-MS.

Parameters	Method	Unit	Results RN16-27675.005		
			Trial 1	Trial 2	Trial 3
Nickel spot test (qualitative test) (*)	FD CR 12471: 2002	---	Negative		
Date of wearing and corrosion test (*)	EN 12472: 2005 + A1: 2009	---	14/12/2016		
Sample area (*)	EN 1811: 2011 + A1: 2015	cm <sup>2</sup>	2.33	2.33	2.33
Volume of Test Solution (*)		mL	2.3	2.3	2.3
Nickel release (*)		µg/cm <sup>2</sup> /week	n.d.	n.d.	n.d.
Limit (Note 4)	---	µg/cm <sup>2</sup> /week	0.5	0.5	0.5
Comment	---	---	Pass	Pass	Pass

Parameters	Method	Unit	Results RN16-27675.006		
			Trial 1	Trial 2	Trial 3
Nickel spot test (qualitative test) (*)	FD CR 12471: 2002	---	Negative		
Date of wearing and corrosion test (*)	EN 12472: 2005 + A1: 2009	---	14/12/2016		
Sample area (*)	EN 1811: 2011 + A1: 2015	cm <sup>2</sup>	2.03	2.49	2.49
Volume of Test Solution (*)		mL	2.0	2.5	2.5
Nickel release (*)		µg/cm <sup>2</sup> /week	n.d.	n.d.	n.d.
Limit (Note 4)	---	µg/cm <sup>2</sup> /week	0.5	0.5	0.5
Comment	---	---	Pass	Pass	Pass

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## Notes :

1.  $\mu\text{g}/\text{cm}^2/\text{week}$  = microgram per square centimetre per week
2. n.d. = not detected
3. Method Detection Limit =  $0.1 \mu\text{g}/\text{cm}^2/\text{week}$
4. Limit specified by entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 94/27/EC and 2004/96/EC).
5. As Nickel is found to be negative by CR 12471:2002 Clause 5.3.4, simulation of wear and corrosion by the EN 12472:2005 + A1:2009 is performed.
6. According to the Commission Communication 2012/C 142/05 published in the OJEU, the EN 1811:2011 is adopted as the harmonized standards under entry 27 of Annex XVII to REACH starting from 31 March 2013.

Comments are given according to EN 1811:2011+ A1:2015 as below:

Type of sample	Nickel Release ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	
	PASS	FAIL
Article with Nickel release limit of $0.5 \mu\text{g}/\text{cm}^2/\text{week}$	< 0.88	$\geq 0.88$
Article with Nickel release limit of $0.2 \mu\text{g}/\text{cm}^2/\text{week}$	< 0.35	$\geq 0.35$

## 7) Entry 43 of Annex XVII, Azo dyes content <sup>(1)</sup>

### a. Test according to EN 14362-1: 2012 by GC-MS – LC-DAD

Substance name	CAS No.	Results (mg/kg)	Recommended Max. Limit (mg/kg)
		RN16-27675.011	
1) 4-Aminobiphenyl <sup>(1)</sup>	92-67-1	n.d.	30
2) Benzidine <sup>(1)</sup>	92-87-5	n.d.	30
3) 4-Chloro-o-toluidine <sup>(1)</sup>	95-69-2	n.d.	30
4) 2-Naphthylamine <sup>(1)</sup>	91-59-8	n.d.	30
5) o-Aminoazotoluene <sup>(1)</sup>	97-56-3	n.d.	30
6) 5-Nitro-o-toluidine <sup>(1)</sup>	99-55-8	n.d.	30

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Substance name	CAS No.	Results (mg/kg)	Recommended Max. Limit (mg/kg)
		RN16- 27675.011	
7) 4-Chloroaniline <sup>(1)</sup>	106-47-8	n.d.	30
8) 4-Methoxy-m-phenylenediamine <sup>(1)</sup>	615-05-4	n.d.	30
9) 4,4'-Diaminodiphenylmethane <sup>(1)</sup>	101-77-9	n.d.	30
10) 3,3'-Dichlorobenzidine <sup>(1)</sup>	91-94-1	n.d.	30
11) 3,3'-Dimethoxybenzidine <sup>(1)</sup>	119-90-4	n.d.	30
12) 3,3'-Dimethylbenzidine <sup>(1)</sup>	119-93-7	n.d.	30
13) 4,4'-Methylenedi-o-toluidine <sup>(1)</sup>	838-88-0	n.d.	30
14) 6-Methoxy-m-toluidine (p-Cresidine) <sup>(1)</sup>	120-71-8	n.d.	30
15) 4,4'-Methylene-bis-(2-chloroaniline) <sup>(1)</sup>	101-14-4	n.d.	30
16) 4,4'-Oxydianiline <sup>(1)</sup>	101-80-4	n.d.	30
17) 4,4'-Thiodianiline <sup>(1)</sup>	139-65-1	n.d.	30
18) o-Toluidine <sup>(1)</sup>	95-53-4	n.d.	30
19) 2,4-Toluendiamine <sup>(1)</sup>	95-80-7	n.d.	30
20) 2,4,5-Trimethylaniline <sup>(1)</sup>	137-17-7	n.d.	30
21) o-Anisidine <sup>(1)</sup>	90-04-0	n.d.	30
22) 4-Aminoazobenzene <sup>(1)</sup>	60-09-3	##	30
Conclusion	---	Pass	---

### Notes:

1. mg/kg = ppm  
n.d. = not detected  
Detection limit = 5 mg/kg

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2. Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006.
3. ## The EN 14362-1:2012 and ISO 17234-1 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 / ISO 17234-2 will be employed to verify the presence of 4-aminoazobenzene.

Whenever 4-Aminobiphenyl (CAS 92-67-1), 2-Naphthylamine (CAS 91-59-8) and 4-Methoxy-m-phenylenediamine (CAS 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 certain amines, e.g. 4,4'-Diaminodiphenylmethane (CAS 101-77-9) and 2,4-Toluendiamine (CAS 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'-Diaminodiphenylmethane (CAS 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

### Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN 14362-3:2012 with the use of Gas Chromatography – Mass Spectrometry (GC-MS)

Substance name	CAS No.	Results (mg/kg)	Recommended Max. Limit (mg/kg)
		RN16-27675.011	
4-Aminoazobenzene <sup>(1)</sup>	60-09-3	n.d.	30
<b>Conclusion</b>	---	<b>Pass</b>	---

Notes: mg/kg = ppm  
n.d. = not detected  
Detection limit = 5 mg/kg

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### 8) Entry 45 of Annex XVII, Octabromodiphenylether content

#### a. Test according to IEC 62321 adapted (ME-310: method by GC-MS).

Substance Name	Unit	Results RN16-27675.011
Octabromodiphenylether (expressed in BDE-197, CAS 117964-21-3)	mg/kg	< 4

Notes: < = less than  
mg/kg = milligram per kilogram

### 9) Entry 50 of Annex XVII, PAH compounds

#### a. Test according to AfPS GS 2014:01 PAK adapted (ME401: analysis by GC-MS)

Substance name	CAS No. number	Results (mg/kg)		Limits* (mg/kg)	
		RN16-27675.008	RN16-27675.009	Consumer product	Toy or childcare product
Benz[a]anthracene	56-55-3	n.d.	n.d.	1.0	0.5
Chrysene	218-01-9	n.d.	n.d.	1.0	0.5
Sum of Benzo[b]fluoranthene, Benzo[j]fluoranthene and Benzo[k]fluoranthene	205-99-2 205-82-3 207-08-9	n.d.	n.d.	1.0	0.5
Benzo[a]pyrene	50-32-8	n.d.	n.d.	1.0	0.5
Benzo[e]pyrene	192-97-2	n.d.	n.d.	1.0	0.5
Dibenzo[a,h]anthracene	53-70-3	n.d.	n.d.	1.0	0.5
<b>Conclusion of EU 8 PAHs*</b>	---	<b>Pass</b>	<b>Pass</b>	---	---

Notes: n.d. = Not Detected  
mg/kg = milligram per kilogram  
The detection limit of each of the individual compound is 0.1 mg/kg.  
\* Conclusion is based on the limit specified by Commission Regulation (EU) No 1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006 effective after 27 December 2015.

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### 10) Entry 61 of Annex XVII, Dimethylfumarate content<sup>1)</sup>

#### a. Test according to house made method by GC-MS

Substance name	CAS No.	Results (mg/kg)	Recommended Max. Limit (mg/kg)
		RN16-27675.011	
Dimethyl fumarate	624-49-7	n.d.	0.1
Conclusion	---	Pass	---

Note: n.d. = not detected  
mg/kg = milligram per kilogram  
Detection Limit = 0.1 mg/kg  
Recommended Max. Limit specified by Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Commission Decision 2011/135/EU).

### 11) Entry 63 of Annex XVII, Lead content

#### a. Test according to house made method (acid digestion followed by MO-176: analysis by ICP-OES)

Element	CAS-No.	Results (mg/kg)				Recommended Max. Limit (mg/kg)
		RN16-27675.007	RN16-27675.008	RN16-27675.009	RN16-27675.011	
Lead	7439-92-1	n.d.	n.d.	n.d.	n.d.	500
Conclusion	---	Pass	Pass	Pass	Pass	---

Notes: n.d.= not detected  
mg/kg = milligram per kilogram  
Detection limit = 1 mg/kg for RN16-27675.007  
3 mg/kg for RN16-27675.008, RN16-27675.009, RN16-27675.011

Remark: Recommended Max. Limit specified by Commission Regulation (EU) No 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 effective after 1 June 2016.

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such

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accessible part of an article, whether coated or uncoated, does not exceed 0.05  $\mu\text{g}/\text{cm}^2/\text{h}$  (equivalent to 0.05  $\mu\text{g}/\text{g}/\text{h}$ ). However, the legal text does not define a specific method for the demonstration of release rate while the Commission may develop a method for Lead migration.

### TEST RESULTS - POP Regulation (EC) No 850/2004

#### 1) Short Chain Chlorinated Paraffins (SCCP) content

##### a. Test according house made method by GC-ECD.

Substance name	CAS No.	Results (mg/kg)	Recommended Max. Limit (mg/kg)
		RN16-27675.010	
Short Chain Chlorinated Paraffin (SCCP)	85535-84-8	n.d.	1500
Conclusion	---	Pass	---

Notes: n.d. = not detected  
Detection Limit = 20 mg/kg

Remark: Limit with reference to Commission regulation (EU) No 2015/2030 amending Regulation (EC) No 850/2004

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### Samples photo:



SGS authenticates the photo on original report only

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