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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Solar mason jar outdoor lamp

Model/Style/Item #: MO6341

vendor code: 107978

Receiving Date: 1-Dec-2023

Test Period: From 1-Dec-2023 to 6-Dec-2023

Add Information:

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

Signed for and on behalf of STS

Mark Mai (Technical Director)

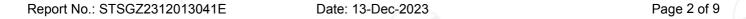
e-mail: stsgz@stsapp.com



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Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tostod Part(s)	Results				
Seq. No.	Tested Part(s)		Cd	Hg	Cr	Br
1	Transparent glass,bottle	BL	BL	BL	BL	NA
2	Silvery metal,ring	BL	BL	BL	BL	NA
3	Silvery metal,shell	BL	BL	BL	BL	NA
4	Transparent resin,cover	BL	BL	BL	BL	BL
5	Black/blue coating,battery piece	BL	BL	BL	BL	BL
6	Silvery metal,connect plate	BL	BL	BL	BL	NA
7	Black plastic,cover	BL	BL	BL	BL	BL
8	Black plated silvery metal,screw	BL	BL	BL	X	NA
9	Silvery metal,plate	BL	BL	BL	BL	NA
10	Silvery metal,spring	BL	BL	BL	Х	NA
11	Mutilcolor printed grey body,resistor	BL	BL	BL	BL	BL
12	Black body,MOS		BL	BL	BL	BL
13	Silvery metal,shell	BL	BL	BL	BL	NA
14	Black plastic,switch	BL	BL	BL	BL	BL
15	Silvery metal,solder	BL	BL	BL	BL	NA
16	Green PCB	BL	BL	BL	BL	Х
17	Silvery metal,wire	BL	BL	BL	BL	NA
18	Transparent dry glue	BL	BL	BL	BL	BL
19	Yellow body,LED	BL	BL	BL	BL	Х
20	Black soft plastic,wire jacket	BL	BL	BL	BL	BL
21	Red soft plastic,wire jacket	BL	BL	BL	BL	BL
22	Coppery metal,wire core	BL	BL	BL	BL	NA
23	Black dry glue	BL	BL	BL	BL	BL
24	Silvery metal,slider	BL	BL	BL	BL	NA

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25	Silvery metal,lead	BL	BL	BL	BL	NA
26	Silvery metal,lead	BL	BL	BL	BL	NA
27	Silvery metal,lead	BL	BL	BL	BL	NA
28	Brown plastic,base	BL	BL	BL	BL	BL

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X	- (BL≤250-3σ< X

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000

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Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenyl ethers (PBDEs)	1000

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

1.2 **Hexavalent Chromium (Cr(VI))**

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis

Compound		Mat	Limit	DI	
		8	10	Lillit	RL
1	Hexavalent Chromium (Cr(VI))	Negative	Negative	#	-
	Conclusion	PASS	PASS	-	-

Remark(s) (a) ug/cm²: microgram per square centimeter

(b) RL: Report Limit

Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

Compound		Mate	Limit	RL	
	Compound	16		(mg/kg)	(mg/kg)
1	Monobromo biphenyl	N.D.	N.D.	- (50
2	Dibromo biphenyl	N.D.	N.D.	- (50
3	Tribromo biphenyl	N.D.	N.D.	-	50

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⁽c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm²

Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm²
(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.



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	Conclusion	PASS	PASS	-	_
22	Sum of PBDEs	N.D.	N.D.	1000	-
21	Sum of PBBs	N.D.	N.D.	1000	-
20	Decabromo diphenyl ether	N.D.	N.D.	-	50
19	Nonabromo diphenyl ether	N.D.	N.D.	-	50
18	Octabromo diphenyl ether	N.D.	N.D.	-	50
17	Heptabromo diphenyl ether	N.D.	N.D.	-	50
16	Hexabromo diphenyl ether	N.D.	N.D.	-	50
15	Pentabromo diphenyl ether	phenyl N.D. N.D.			50
14	Tetrabromo diphenyl ether	enyl ether N.D. N.D.		-	50
13	Tribromo diphenyl ether	N.D.	N.D.	-	50
12	Dibromo diphenyl ether	N.D.	N.D.	-	50
11	Monobromo diphenyl ether	N.D.	N.D.	-	50
10	Decabromo biphenyl	N.D.	N.D.	-	50
9	Nonabromo biphenyl	N.D.	N.D.	-	50
8	Octabromo biphenyl	N.D.	N.D.	-	50
7	Heptabromo biphenyl	N.D.	N.D.	-	50
6	Hexabromo biphenyl	N.D.	N.D.	-	50
5	Pentabromo biphenyl	N.D.	N.D.		50
4	Tetrabromo biphenyl	N.D.	N.D.	(-/	50

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

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1.4 Phthalates – (DBP, BBP, DEHP, DIBP)

IEC 62321-8:2017, Solvent extract and determined by GC/MS

Compound			Material				Limit (0/)	DI (9/)
	Compound		4	5	7+14	11+12	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

Com		anaund	Material				Limit (9/)	DI (9/)
	Compound		16	18	19	20+21	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

	Com	Materia	erial	Limit (0/)	DI (0/)	
	Compound		23 28		Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	-	-

Remark(s): (a) RL: Report limit

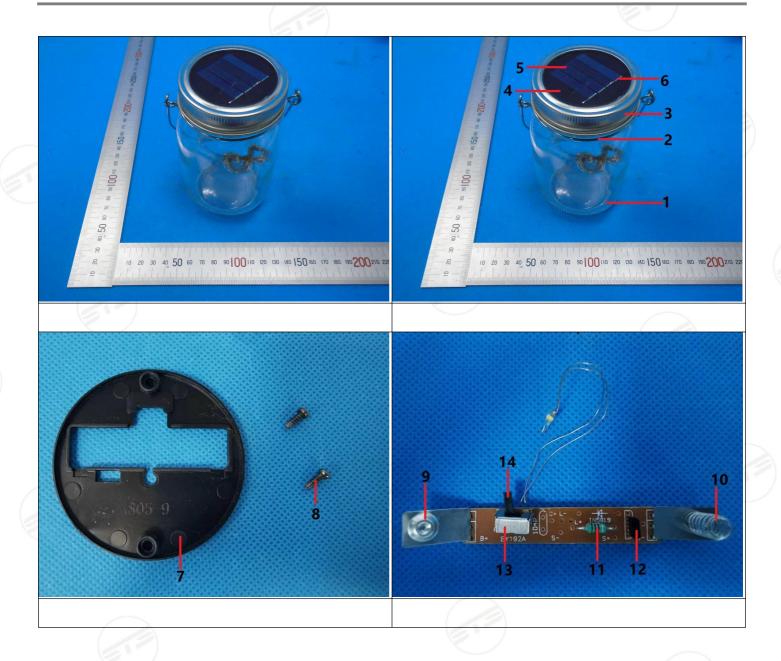
(b) N.D.: Not detected (result is less than RL)

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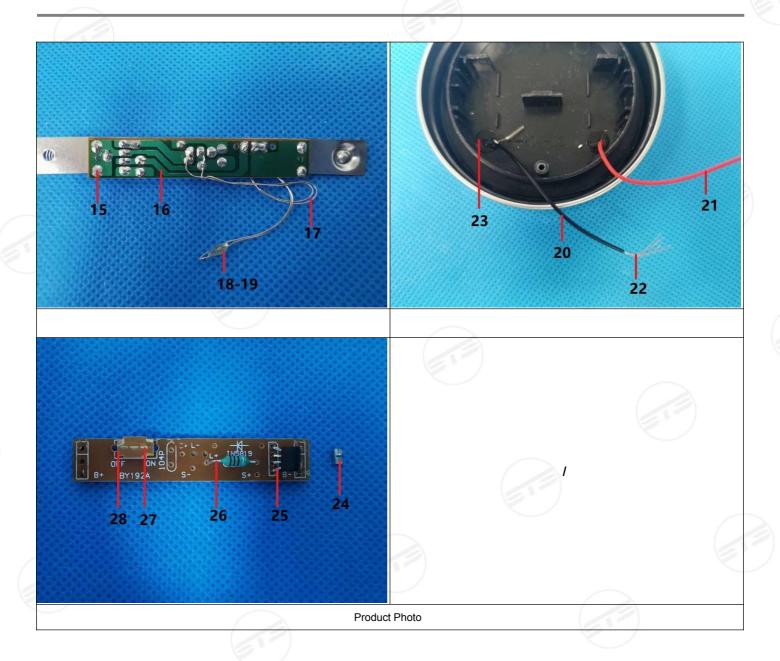
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