



Test Report

No.T52310250663TC

Date: MAR 06, 2023

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KIKKERLAND DESIGN INC
666 BROADWAY, 4TH FLOOR, NEW YORK, NY, 10012

The following samples were submitted and identified by/on behalf of the client as:

SOLAR BOTTLE LIGHT

Item No. : LT28
Supplier : ZHEJIANG FREE TRADE ZONE JIUYANG TRADING CO., LTD.
Country of Origin : CHINA

Sample Receiving Date : FEB 16, 2023
Last Submission Sample Date : FEB 27, 2023
Further Information Date : MAR 03, 2023
Testing Period : FEB 16, 2023 TO MAR 06, 2023



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Shenzhen Branch Testing Center Hardlines

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Test Requested	Conclusion
1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content	PASS
2. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds	PASS
3. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content	PASS
4. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS
5. European Regulation (EU) 2019/1021 Persistent Organic Pollutants (POPs Recast) – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
6. European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

scan to see the report



T52310250663TC

Qu Ping, Kiky
Dept. Manager



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Results:

European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3

For Plastic

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Black soft plastic (Body) + Black plastic (Switch) + Transparent plastic (LED)	2	1	ND
2. White plastic (Wire jacket) + Black plastic (Wire jacket)	2	2	ND
3. Green plastic sheet w/ black printing (Battery shell) + Black soft plastic sheet w/ white printing (Inner) + Matt-black plastic (Inner)	2	3	ND
4. Black material (IC)	2	4	ND
5. White PCB w/ green, white printing (Inner) + Brown PCB (Switch)	2	5	ND

For Paint on Painted Article

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	1000		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Transparent resin coating on PCB (Body) w/ White coating on soft plastic (Body)	3	1	ND
2. Green wet paint	3	2	ND

- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
 - mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 5 mg/kg
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible or Reference Limit



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European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds

Method: With reference to ISO 17353: 2004

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (%)				MDL (%)	Permissible Limit (%)
	1	2	3	4		
Specimen No.	1	2	3	4		
Alias No.	5	5	5	5		
Tracing No.	1	2	3	4		
Dibutyltin (DBT) (as Tin)	ND	ND	ND	ND	0.010	0.1
Dioctyltin (DOT) (as Tin)	ND	ND	ND	ND	0.010	0.1
Tri-substituted Organostannic Compounds (as Tin)	ND	ND	ND	ND	0.010	0.1

Specimen Description:

1. Black soft plastic (Body) w/ Black plastic (Switch) w/ Transparent plastic (LED)
2. White plastic (Wire jacket) w/ Black plastic (Wire jacket) w/ Black material (IC) + White PCB w/ green, white printing (Inner) w/ Brown PCB (Switch)
3. Matt-black plastic (Inner) w/ Green plastic sheet w/ black printing (Battery shell) w/ Black soft plastic sheet w/ white printing (Inner)
4. Transparent resin coating on PCB (Body) w/ White coating on soft plastic (Body) w/ Green coating on plastic (Inner)

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - NA = Not Applicable
 - Tri-substituted Organostannic compounds are represented by Tributyltin (TBT) compounds, Triphenyltin (TPHT) compounds, Tripropyltin (TPT) compounds, Tricyclohexyltin (TCyT) compounds and Tri-n-octyltin (TOT) compounds, Trimethyltin (TMT) compounds

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceeds Permissible Limit
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component



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European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article.

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	4	4	4		
Tracing No.	--	1	2	3		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	4	4	4		
Tracing No.	--	4	5	6		
Specimen No.	--	4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	4	4	4		
Tracing No.	--	7	8	9		
Specimen No.	--	7	8	9		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	0.011	0.012	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		0.011	0.012	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	4	4		
Tracing No.	--	10	11		
Specimen No.	--	10	11		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1

Specimen Description:

1. Transparent resin coating on PCB (Body)
2. White wet paint
3. Black soft plastic (Body)
4. Black plastic (Switch)
5. Transparent plastic (LED)
6. Green wet paint
7. White plastic (Wire jacket)
8. Black plastic (Wire jacket)
9. Green plastic sheet w/ black printing (Battery shell)
10. Black soft plastic sheet w/ white printing (Inner)
11. Matt-black plastic (Inner)



- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - % = percentage by weight

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- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible Limit

Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content

Method: With reference to AfPS GS 2019:01 PAK method.

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Consumer product

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
Specimen No.	--	1	2		
Alias No.	--	7	7		
Tracing No.	--	1	2		
1. Benzo[a]anthracene	56-55-3	ND	ND	0.1	1.0
2. Chrysene	218-01-9	ND	ND	0.1	1.0
3. Benzo[b]fluoranthene	205-99-2	ND	ND	0.1	1.0
4. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	1.0
5. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	1.0
6. Benzo[a]pyrene	50-32-8	ND	ND	0.1	1.0
7. Benzo[e]pyrene	192-97-2	ND	ND	0.1	1.0
8. Dibenzo[a,h]anthracene	53-70-3	ND	ND	0.1	1.0

Specimen Description:

1. Transparent resin coating on PCB (Body) w/ White coating on soft plastic (Body)
2. Black soft plastic (Body) + Black plastic (Switch) w/ Transparent plastic (LED)



- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - mg/kg = milligram per kilogram

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- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds limit

Regulation (EU) 2019/1021 Persistent Organic Pollutants (POPs Recast) – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Method: With reference to ISO 22818:2021 / ISO 18219-1:2021

Analysis was performed by Gas Chromatography Electron Capture Detector (GC-ECD) / Gas Chromatography Negative Chemical Ionization Mass Spectrometry (GC-NCI-MS)

Articles :

Test Item(s) Specimen No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	1	2		
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	ND	ND	50	1500

Test Item(s) Specimen No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	3	4		
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	ND	ND	50	1500

Specimen Description:

1. Black soft plastic (Body) w/ Black plastic (Switch) w/ Transparent plastic (LED)
2. White PCB w/ green, white printing (Inner) w/ Brown PCB (Switch) w/ White plastic (Wire jacket) w/ Black plastic (Wire jacket) w/ Black material (IC)
3. Matt-black plastic (Inner) w/ Green plastic sheet w/ black printing (Battery shell) w/ Black soft plastic sheet w/ white printing (Inner)
4. Transparent resin coating on PCB (Body) w/ White coating on soft plastic (Body) w/ Green coating on plastic (Inner)





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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)

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- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceed Permissible Limit

European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS) / Direct Mercury Analyzer (DMA)

For portable batteries:

Test Item(s)	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)
MDL (%)	0.001	0.001	0.0001
Labeling Requirement (%)	> 0.004	--	--
Permissible Limit (%)	--	0.002 [#]	0.0005
Specimen Description	Alias No.	Tracing No.	Result(s) (%)
1. Button cell (Ni-MH TROILY-Rechargeable 40H 1.2V 40mAh CHARGE: 4mA 14h)	1	1	ND ND ND



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- Note:
- % = percentage by weight
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - > = greater than

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- # = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems and medical equipments
- ## = According to Directive 2006/66/EC, the corresponding chemical symbol beneath the cross-out wheeled bin logo is required if the heavy metal content in batteries and accumulators exceeded the values specified under labeling requirements.
- * Exceeds Permissible Limit

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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012)- When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_U - U_{95}$, $T_U + U_{95}$]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_L - U_{95}$, $T_L + U_{95}$]



Sample Picture (As received)

Pic.1



Pic.2



SGS authenticate the photo on original report only

*** End of Report ***

