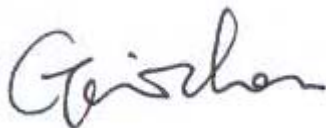


The following information was submitted and identified by/on behalf of the client as:

Applicant : Ningbo Shanhuang Electric Appliance Company
Address : No.115 Xingongyi Road, Xinxing Industrial Area, Ninghai, Ningbo, China 315600
Sample Name : LED Grave Light
Sample Model : BSZD0
Receive Date : Apr. 29, 2015
Testing period : Apr. 29, 2015 - May. 05, 2015
Test Requested : As specified by client, determination of the Polycyclic Aromatic Hydrocarbon (PAHs) content in submitted sample according to AfPS-GS-2014-01-PAH "Testing and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS Mark".
Test Method : Please refer to the next page(s).
Test Result(s) : Please refer to the next page(s).
Conclusion(s) : The test result(s) in the submitted sample(s) **Complies with AfPS-GS-2014-01-PAH "Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAHs) in the course of GS-Mark Certification"**.

ORIGINAL

Authorized signature:



Lab Manager: Gavin Zhou



May. 07, 2015

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Test Result(s):
Test Sample Description

Sample No.	Sample Name	Sample Description	Location
<u>01</u>	LED Grave Light	Golden plastic	Main part of outer cover
<u>02</u>		Red plastic	Shell
<u>03</u>		White plastic	Light cover of inner box
<u>04</u>		Black plastic	Switch button
<u>05</u>		Black/ White plastic sheet	Around the cover

Polycyclic Aromatic Hydrocarbons (PAHs)
Test Method: AfPS-GS-2014-01-PAH

Testing and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS Mark

<u>Item No.</u>	<u>Test Item</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	
						<u>01</u>	<u>02</u>
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2	<10 (sum)	N.D.	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2			
13	Anthracene	120-12-7	mg/kg	0.2			
14	Fluorene	86-73-7	mg/kg	0.2			
15	Fluoranthene	206-44-0	mg/kg	0.2			
16	Phenanthrene	85-01-8	mg/kg	0.2			
17	Pyrene	129-00-0	mg/kg	0.2			
18	Naphthalene	91-20-3	mg/kg	0.2	<2	N.D.	N.D.
Sum of 18 PAHs		--	mg/kg	--	<10	N.D.	N.D.
Conclusion		For category 2 articles (Other Products by ProdSG)				PASS	PASS

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Item No.	Test Item	CAS No.	Unit	MDL	Limit	Result(s)	
						03	04
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2	<10 (sum)	N.D.	0.4
12	Acenaphthene	83-32-9	mg/kg	0.2			
13	Anthracene	120-12-7	mg/kg	0.2			
14	Fluorene	86-73-7	mg/kg	0.2			
15	Fluoranthene	206-44-0	mg/kg	0.2			
16	Phenanthrene	85-01-8	mg/kg	0.2			
17	Pyrene	129-00-0	mg/kg	0.2			
18	Naphthalene	91-20-3	mg/kg	0.2	<2	N.D.	N.D.
Sum of 18 PAHs		--	mg/kg	--	<10	N.D.	0.4
Conclusion		For category 2 articles (Other Products by ProdSG)				PASS	PASS

Item No.	Test Item	CAS No.	Unit	MDL	Limit	Result(s)
						05
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.

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Item No.	Test Item	CAS No.	Unit	MDL	Limit	Result(s)
						05
11	Acenaphthylene	208-96-8	mg/kg	0.2	<10 (sum)	2.4
12	Acenaphthene	83-32-9	mg/kg	0.2		
13	Anthracene	120-12-7	mg/kg	0.2		
14	Fluorene	86-73-7	mg/kg	0.2		
15	Fluoranthene	206-44-0	mg/kg	0.2		
16	Phenanthrene	85-01-8	mg/kg	0.2		
17	Pyrene	129-00-0	mg/kg	0.2		
18	Naphthalene	91-20-3	mg/kg	0.2	<2	1.2
Sum of 18 PAHs		--	mg/kg	--	<10	3.6
Conclusion		For category 2 articles (Other Products by ProdSG)				PASS

Limits for PAHs in Products

Product Safety Commission (AFPS)
Examination and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS mark 4 August 2014.

Parameter	Category 1	Category 2		Category 3	
		Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)	Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)
Polycyclic Aromatic Hydrocarbons (PAHs)	Materials intended to be placed in the mouth or toys with intended prolonged skin contact (> 30 seconds) (mg/kg)	Materials not falling under Category 1, with foreseeable skin contact longer than 30 seconds (long term) or frequent short-term skin contact)		Materials not falling under Category 1 or 2, with foreseeable skin contact less than 30 seconds (short-term skin contact)	
Benzo(a)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(e)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(a)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(b)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(j)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(k)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Dibenzo(a,h)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1

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Test Report

Report No.: G150424B02-01EN

Date: May. 07, 2015

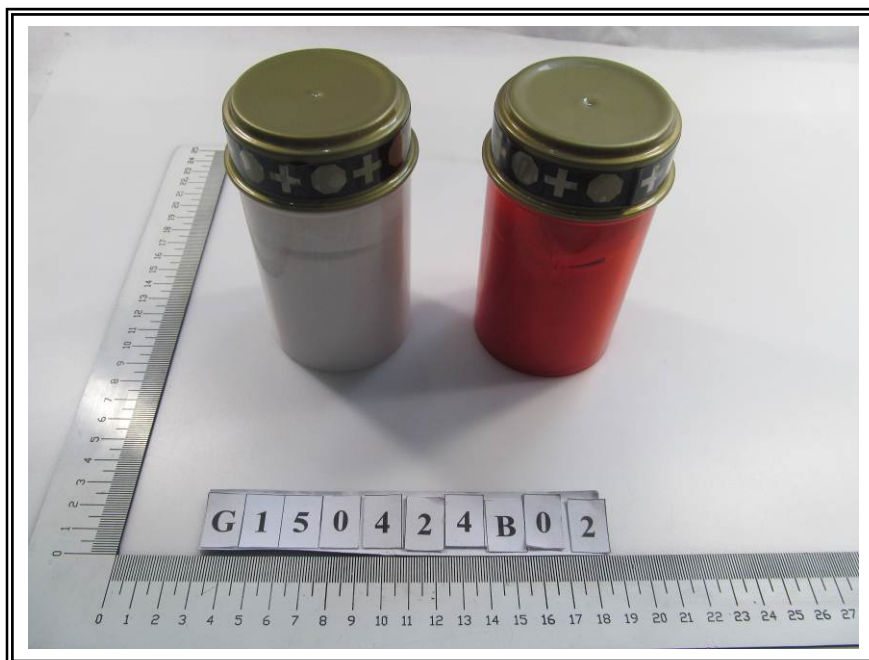
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Benzo(g,h,i)Perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Indeno(1,2,3-cd)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Acenaphthylene	<1 (sum)	<5 (sum)	< 10 (sum)	< 20 (sum)	< 50 (sum)
Acenaphthene					
Anthracene					
Fluorene					
Fluoranthene					
Phenanthrene					
Pyrene	<1	<2		< 10	
Naphthalene					
Sum of 18 PAHs	<1	<5	< 10	<20	<50

Note: 1. MDL = Method Detection Limit;
2. N.D. = Not Detected (Below MDL).



Sample Photo(s):



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GIG authenticate the photo(s) on original report only

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

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