



PAHS Report

Applicant: Deeray Global Co.,ltd
NO. 1010, JINHAO BUILDING, XINTIAN COMMUNITY, FUYONG
Address: STREET, BAO'AN, SHENZHEN
Manufacturer: Deeray Global Co.,ltd
NO. 1010, JINHAO BUILDING, XINTIAN COMMUNITY, FUYONG
Address: STREET, BAO'AN, SHENZHEN
The following samples were submitted and identified on behalf of the clients as
Sample Name: STICK
Model: SDV-180
Brand Name: --
Sample Received Date: Nov.18,2016
Test Period: From Nov.18,2016 to Nov.24,2016
Test Requested: As specified by client, to determine the content of the PAHs in the submitted samples.
Test Method: Please refer to next pages
Resulut Summary: Please refer to next pages

Signed for and on behalf of
Shenzhen Jialian Testing Consulting Co., Ltd.



Lris Ma

Approved Signatory

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Prepared By:

Shenzhen Jialian Testing Consulting Co., Ltd.

5/F, 7 Building, XinYuan Industrial Park, Xili Town, NanShan District, ShenZhen City



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No.JQL161118880-1P

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Test Method:

Test Item	CAS No.	Test Method / Instrument	MDL (mg/kg)
Phenanthrene	85-01-8	AfPS GS 2014:01/GS-MS	0.1
Pyrene	129-00-0	AfPS GS 2014:01/GS-MS	0.1
Naphthalene	91-20-3	AfPS GS 2014:01/GS-MS	0.1
Indeno(1,2,3-c,d)pyrene	193-39-5	AfPS GS 2014:01/GS-MS	0.1
Fluorene	86-73-7	AfPS GS 2014:01/GS-MS	0.1
Fluoranthene	206-44-0	AfPS GS 2014:01/GS-MS	0.1
Dibenzo(a,h)anthracene	53-70-3	AfPS GS 2014:01/GS-MS	0.1
Chrysene	218-01-9	AfPS GS 2014:01/GS-MS	0.1
Benzo(k)fluoranthene	207-08-9	AfPS GS 2014:01/GS-MS	0.1
Benzo(g,h,i)perylene	191-24-2	AfPS GS 2014:01/GS-MS	0.1
Benzo(b)fluoranthene	205-99-2	AfPS GS 2014:01/GS-MS	0.1
Benzo(a)pyrene	50-32-8	AfPS GS 2014:01/GS-MS	0.1
Benzo(a)anthracene	56-55-3	AfPS GS 2014:01/GS-MS	0.1
Anthracene	120-12-7	AfPS GS 2014:01/GS-MS	0.1
Acenaphthylene	208-96-8	AfPS GS 2014:01/GS-MS	0.1
Acenaphthene	83-32-9	AfPS GS 2014:01/GS-MS	0.1
Benzo(j)fluoranthene	205-8-3	AfPS GS 2014:01/GS-MS	0.1
Benzo(e)pyrene	192-97-2	AfPS GS 2014:01/GS-MS	0.1

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AfPS(German commission for Product Safety): GS PAHs requirements

Parameter (mg/kg)	Category 1	Category 2		Category 3	
	Material intended to be put in the mouth or toys with intended skin contact(longer than 30 s)	Materials not falling under Category 1 with foreseeable contact to skin for longer than 30s (long-term skin) or frequent contact		Material not falling under Category 1 or 2, with foreseeable contact to skin for less than 30s (short-term skin contact)	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/E C	Other products under PordSG
Benzo(a)pyrene(BaP)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene(BeP)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene(BaA)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene(BbF)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene(BjF)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene(BkF)	<0.2	<0.2	<0.5	<0.5	<1
Chrysene(CHR)	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene(DBA)	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)perylene(BPE)	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-c,d)pyrene(IPY)	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene(NAP)	<1	<2	<2	<10	<10
Acenaphthylene(ANY) Acenaphthene(ANA) Fluorene(FLU) Phenanthrene(PHE) Anthracene(ANT) Fluoranthene(FLT) Pyrene(PYR)	<1 (sum)	<5 (sum)	<10 (sum)	<20 (sum)	<50 (sum)
Sum of 18 PAHs	<1	<5	<10	<20	<50

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PAHs Test Results:

Test Item	Result(mg/kg)		
	A	B	C
Phenanthrene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Naphthalene	N.D.	N.D.	N.D.
Indeno(1,2,3-c,d)pyrene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Dibenzo(a,h)anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo(k)fluoranthene	N.D.	N.D.	N.D.
Benzo(g,h,i)perylene	N.D.	N.D.	N.D.
Benzo(b)fluoranthene	N.D.	N.D.	N.D.
Benzo(a)pyrene	N.D.	N.D.	N.D.
Benzo(a)anthracene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Benzo(j)fluoranthene	N.D.	N.D.	N.D.
Benzo(e)pyrene	N.D.	N.D.	N.D.
Sum of 18 PAHs	0.66	0.5	0.42

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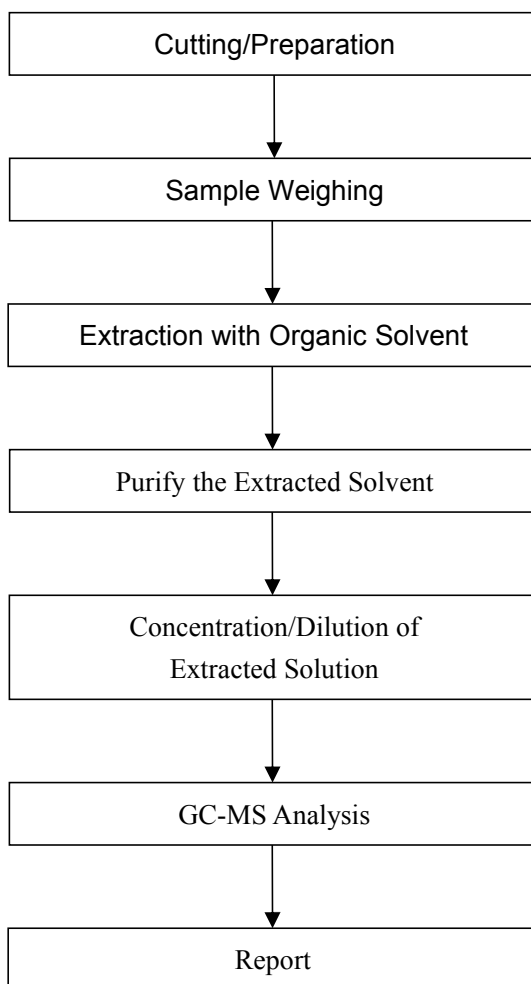
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Note:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) N.D. = Not Detected (less than MDL)
- (3) MDL = Method Detection Limit
- (4) Only PAH substances > 0.2 mg/kg are taken into account while calculating the sum of PAHs
- (5) In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is intended to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.



PAHs Testing Flow Chart:





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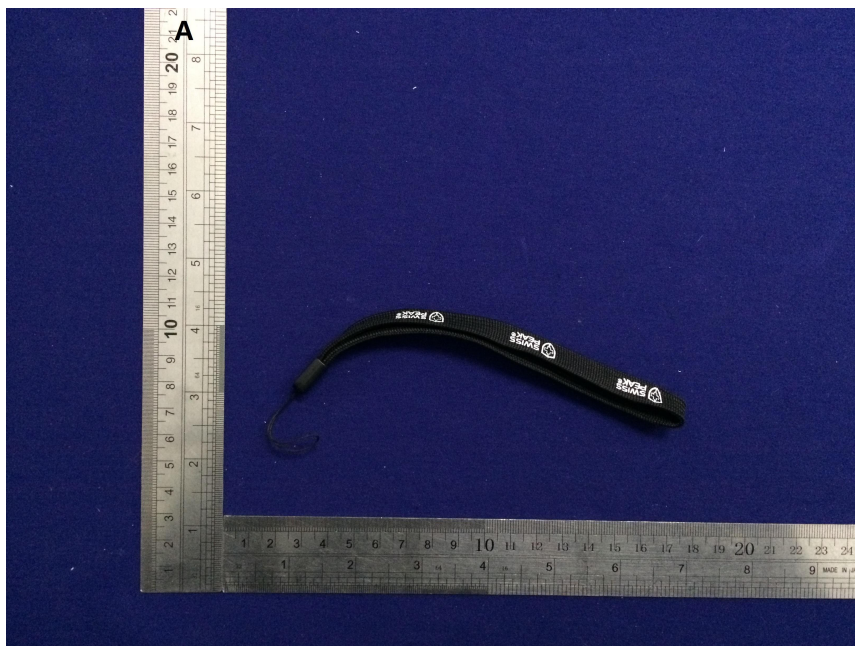
Test Part Description:

A: Mixture of all of fabric parts including stick belt and string

B: Mixture of all of plastics parts of stick handle

C: Mixture of all of plastics parts of stick outer shell and fixing rack

Sample Photo



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

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