

Test Report No. 70.420.14.0369.13



Dated 2014-03-13

ORIGINAL

Applicant: SSFP B.V.
Valschermkade 18
1059 CD Amsterdam
The Netherlands

Product Name: Slides samples

Manufacturer: SSFP B.V.

Supplier: SSFP B.V.

Receipt Date of Sample: 2014-02-25

Date of Testing: 2014-02-25~2014-03-04

Sample Submitted: The sample(s) was (were) submitted by applicant and identified.

Test Result: Refer to the data listed in following pages



TÜV SÜD Certification and Testing (China) Co.,Ltd.
Shanghai Branch

Prepared by: Wu
Wu Jingqing
Assistant Technical Engineer



Checked by: Celia
Celia Zhang
Supervisor

Note: (1) General Terms & Conditions as mentioned overleaf,(2)The results relate only to the items tested,(3)The test report shall not be reproduced except in full without the written approval of the laboratory.

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Test Specification:

1. **Migration of certain elements as required in Directive 2009/48/EC and its amendments**
Test with reference to EN 71 – Part 3:2013
2. **Monomers (Migration), "Safety of Toys: Organic Chemical Compounds", EN71-9:2005+A1: 2007**
Test with reference to EN71-10:2005 & EN71-11:2005
3. **Plasticisers (Organophosphates), "Safety of Toys: Organic Chemical Compounds", EN71-9: 2005+A1: 2007**
Test with reference to EN71-10:2005 & EN71-11:2005
4. **Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)**
Test with reference to ZEK 01.4-08
5. **Phthalates Content**
Test with reference to CPSC-CH-C1001-09.3

Conclusion:

Refer to Page 4

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Description of Tested Subject

Sample	Description	Photo
A-1 (Manufacturer ref.: 2_324_100 2_334_100)	Yellow plastic square	
A-2 (Manufacturer ref.: 2_324_300 2_334_300)	Green plastic square	
A-3 (Manufacturer ref.: 2_324_500 2_334_500)	Pink plastic square	
A-4 (Manufacturer ref.: 2_324_200 2_334_200)	Blue plastic square	
A-5 (Manufacturer ref.: 2_324_400 2_334_400)	Red plastic square	
A-6 (Manufacturer ref.: 2_324_600 2_334_600)	Dark green plastic square	

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Test Results

1. Migration of certain elements as required in Directive 2009/48/EC and its amendments
Test with reference to EN 71 – Part 3:2013

Test Item	Limit (mg/kg) in scraped-off toy material	MDL (mg/kg)	Result (mg/kg)	
			A-1+A-2+A-3*	A-4+A-5+A-6*
Aluminium (Al)	70000	5.0	ND	ND
Antimony (Sb)	560	5.0	ND	ND
Arsenic (As)	47	2.5	ND	ND
Barium (Ba)	18750	5.0	ND	ND
Boron (B)	15000	5.0	ND	ND
Cadmium (Cd)	17	5.0	ND	ND
Chromium (VI) (Cr ⁶⁺)	0.2	0.2	ND	ND
Chromium (III) (Cr ³⁺)	460	0.2	ND	ND
Cobalt (Co)	130	5.0	ND	ND
Copper (Cu)	7700	5.0	ND	ND
Lead (Pb)	160	5.0	ND	ND
Manganese (Mn)	15000	5.0	ND	ND
Mercury (Hg)	94	5.0	ND	ND
Nickel (Ni)	930	5.0	ND	ND
Selenium (Se)	460	5.0	ND	ND
Strontium (Sr)	56000	5.0	ND	ND
Tin (Sn)	180000	5.0	ND	ND
Organic Tin	12	5.0	ND	ND
Zinc (Zn)	46000	5.0	ND	ND

Remark:

1. Limits are quoted from 2009/48/EC and its amendments
2. mg/kg = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected
5. *= the test result is based on composite sample and it is highly recommended to conduct individual test.

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2. Monomers (Migration), "Safety of Toys: Organic Chemical Compounds", EN71-9:2005+A1:2007
Test with reference to EN71-10:2005 & EN71-11:2005

Compound	CAS No.	Unit	MDL	Limit	Result	
					A-1+A-2+A-3*	A-4+A-5+A-6*
Acrylamide	79-06-1	mg/L	0.02	0.02	ND	ND
Bisphenol A	80-05-7	mg/L	0.05	0.1	ND	ND
Formaldehyde	50-00-0	mg/L	2	2.5	ND	ND
Phenol	108-95-2	mg/L	3	15	ND	ND
Styrene	100-42-5	mg/L	0.1	0.75	ND	ND

Remark:

1. MDL= Method Detection Limit
2. ND= Not Detected (<MDL)
3. mg/L = milligram per Litre
4. *= the test result is based on composite sample and it is highly recommended to conduct individual test.

3. Plasticisers (Organophosphates), "Safety of Toys: Organic Chemical Compounds", EN71-9:2005+A1:2007

Test with reference to EN71-10:2005 & EN71-11:2005

Compound	CAS No.	Unit	MDL	Limit	Result	
					A-1+A-2+A-3*	A-4+A-5+A-6*
Triphenyl phosphate	115-86-6	mg/L	0.03	0.03	ND	ND
Tri-o-cresyl phosphate	78-30-8	mg/L	0.03	0.03	ND	ND
Tri-m-cresyl phosphate	563-04-2	mg/L	0.03	0.03	ND	ND
Tri-p-cresyl phosphate	78-32-0	mg/L	0.03	0.03	ND	ND

Remark:

1. MDL= Method Detection Limit
2. ND= Not Detected (<MDL)
3. mg/L = milligram per Litre
4. *= the test result is based on composite sample and it is highly recommended to conduct individual test.

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4. Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)

Test with reference to ZEK 01.4-08, solvent extraction and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Result	
				A-1+A-2+A-3*	A-4+A-5+A-6*
Naphthalene	91-20-3	mg/kg	0.2	ND	ND
Acenaphthylene	208-96-8	mg/kg	0.2	ND	ND
Acenaphthene	83-32-9	mg/kg	0.2	ND	ND
Fluorene	86-73-7	mg/kg	0.2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.2	ND	ND
Anthracene	120-12-7	mg/kg	0.2	ND	ND
Fluoranthene	206-44-0	mg/kg	0.2	ND	ND
Pyrene	129-00-0	mg/kg	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.2	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	0.2	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.2	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	0.2	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.2	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.2	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	0.2	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.2	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.2	ND	ND
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.2	ND	ND
Sum of listed PAHs		mg/kg	---	ND	ND

Remark:

1. Limit according to ZEK 01.4-08.

Parameters	Unit	Category 1	Category 2	Category 3
		Materials indented to be put in the mouth or materials of toys for children aged < 36 months with intended skin contact	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds(short term skin contact)
Benzo(a)pyrene	mg/kg	Not detectable (<0.2)*	1	20
Sum of 18 PAHs	mg/kg	Not detectable (<0.2)*	10	200

*=If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186, ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

2. MDL= Method Detection Limit

3. ND = Not Detected (<MDL)

4. mg/kg = milligram per kilogram

5. *= the test result is based on composite sample and it is highly recommended to conduct individual test.

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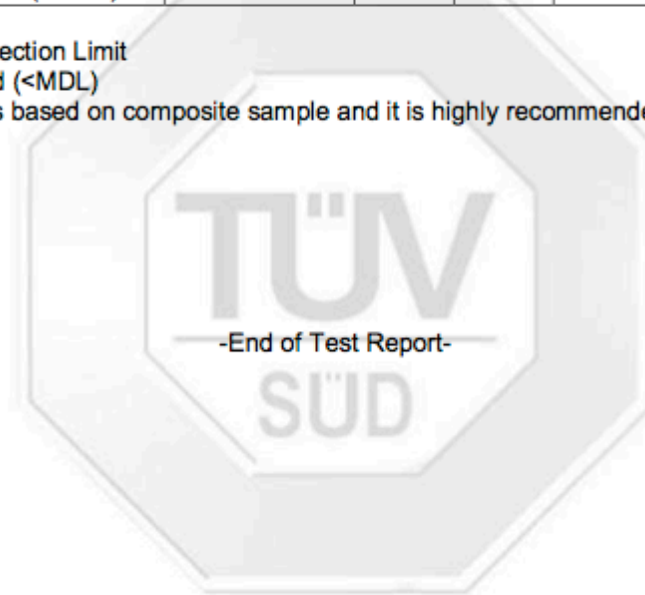
5. Phthalates Content

Test with reference to CPSC-CH-C1001-09.3 and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Result	
				A-1+A-2+A-3*	A-4+A-5+A-6*
Dibutyl phthalate(DBP)	84-74-2	%	0.005	ND	ND
Benzyl butyl phthalate(BBP)	85-68-7	%	0.005	ND	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	%	0.005	ND	ND
Di-n-octyl phthalate(DNOP)	117-84-0	%	0.005	ND	ND
Di-isononyl phthalate(DINP)	28553-12-0	%	0.005	ND	ND
Di-isodecyl phthalate(DIDP)	68515-49-1	%	0.005	ND	ND
Diisobutylphthalate(DiBP)	84-69-5	%	0.005	ND	ND
Diphenyl phthalate(DPhP)	84-62-8	%	0.005	ND	ND
Di-2-propylheptylphthalate(DPHP)	53306-54-0	%	0.005	ND	ND

Remark:

1. MDL= Method Detection Limit
2. ND = Not Detected (<MDL)
3. *= the test result is based on composite sample and it is highly recommended to conduct individual test.



Test Report No 70.431.15.5454.01
Dated 2015-11-18



ORIGINAL

Applicant: SSFP B.V.
Address: VALSCHERMKADE 18, 1059 CD AMSTERDAM, NETHERLANDS
Product Name: 2_321/322/324//331/332/334_100 (Yellow)
2_321/322/324//331/332/334_200 (Blue)
2_321/322/324//331/332/334_300 (Apple Green)
2_321/322/324//331/332/334_400 (Red)
2_321/322/324//331/332/334_500 (Fuchsia)
2_321/322/324//331/332/334_600 (Dark Green)

Country of Origin: Belgium

Country of Destination: EU

Receipt Date of Sample: 2015-11-12

Date of Testing: 2015-11-12 to 2015-11-16

Sample Submitted: The sample(s) was (were) submitted by applicant and identified.

Test Result: Refer to the data listed in following pages

Test Item


Conclusion

1. Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)

Pass*

Remark: * = Conclusion was drawn according to client's specification

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Shanghai Branch

Prepared by: 

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Checked by: 

Celia Zhang
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Test Report No 70.431.15.5454.01
Dated 2015-11-18



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Description of the Tested Subject

Sample	Description	Photo
001	Yellow plastic slide	
002	Blue plastic slide	
003	Apple green plastic slide	
004	Red plastic slide	
005	Fuchsia plastic slide	
006	Dark green plastic slide	

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Test Results

1. Content of 18 PAHs (Polycyclic Aromatic Hydrocarbons)

Test with reference to AfPS GS 2014:01 PAK, solvent extraction and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)		
					001	002	003
Naphthalene	91-20-3	mg/kg	0.1	<1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	mg/kg	0.1	Sum<1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	mg/kg	0.1		<0.1	<0.1	<0.1
Fluorene	86-73-7	mg/kg	0.1		<0.1	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1		<0.1	<0.1	<0.1
Anthracene	120-12-7	mg/kg	0.1		<0.1	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1		<0.1	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1		<0.1	<0.1	<0.1
Benzo(a)anthracene [#]	56-55-3	mg/kg	0.1		<0.2	<0.1	<0.1
Chrysene [#]	218-01-9	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(b)fluoranthene [#]	205-99-2	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(j)fluoranthene [#]	205-82-3	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene [#]	207-08-9	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(a)pyrene [#]	50-32-8	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(e)pyrene [#]	192-97-2	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene [#]	53-70-3	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	193-39-5	mg/kg	0.1	<0.2	<0.1	<0.1	<0.1
Sum of listed PAHs	-	mg/kg	-	<1	<0.1	<0.1	<0.1
Conclusion (Category 1)					Pass	Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)		
					004	005	006
Naphthalene	91-20-3	mg/kg	0.1	<1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	mg/kg	0.1	Sum<1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	mg/kg	0.1		<0.1	<0.1	<0.1
Fluorene	86-73-7	mg/kg	0.1		<0.1	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1		<0.1	<0.1	<0.1
Anthracene	120-12-7	mg/kg	0.1		<0.1	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1		<0.1	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1		<0.1	<0.1	<0.1
Benzo(a)anthracene [#]	56-55-3	mg/kg	0.1		<0.2	<0.1	<0.1
Chrysene [#]	218-01-9	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(b)fluoranthene [#]	205-99-2	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(j)fluoranthene [#]	205-82-3	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(k)fluoranthene [#]	207-08-9	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(a)pyrene [#]	50-32-8	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(e)pyrene [#]	192-97-2	mg/kg	0.1	<0.2	<0.1	<0.1	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.1	<0.2	<0.1	<0.1	
Dibenz(a,h)anthracene [#]	53-70-3	mg/kg	0.1	<0.2	<0.1	<0.1	
Indeno(1,2,3-c,d)pyrene	193-39-5	mg/kg	0.1	<0.2	<0.1	<0.1	
Sum of listed PAHs	-	mg/kg	-	<1	<0.1	<0.1	<0.1
Conclusion (Category 1)					Pass	Pass	Pass

- Remark: 1. # Substances are limited in EU 1272/2013, which will be a legal requirement from 27.12.2015. Limit in articles excluding toys: 1mg/kg each substance. Limit in toys: 0.5mg/kg each substance.
 2. MDL= Method Detection Limit
 3. <= Less than
 4. mg/kg = milligram per kilogram
 5. Category was specified by client
 6. Limit according to AfPS GS 2014:01 PAK:

Parameter	Category 1	Category 2		Category 3	
	Materials, that are intended to be put into the mouth or materials in toys with intended and prolonged skin-contact (longer than 30 s)	Materials, not covered by category 1, with foreseeable skin-contact of > 30 s (prolonged skin-contact) or short-term repetitive contact with the human skin	Toys according to Toy Directive 2009/48/EC	Other products according to Product Safety Act	Toys according to Toy Directive 2009/48/EC
[mg/kg]					
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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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
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthen, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene	< 1	< 2		< 10	
Sum 18 PAH	< 1	< 5	< 10	< 20	< 50

- End of Test Report -



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