

TEST REPORT

APPLICANT : Ningbo Johnshen Stationery Co., Ltd

ADDRESS : No.119 Ding xiang Road, Jiangdong Zone, Ningbo, Zhejiang

SAMPLE DESCRIPTION : SET OF 2 PCS GLUE STICK

ITEM NO. : 708936

COUNTRY OF ORIGIN : China

SAMPLE RECEIVED DATE : 26-May-2016

TURN AROUND TIME : 26-May-2016 to 03-Jun-2016

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

| TEST REQUESTED | TEST METHOD/REGULATION | RESULT |
|---|---|--------|
| Organic-Tin Compounds | REACH Annex XVII, Entry 20 | Pass |
| Total Cadmium Content | REACH Annex XVII, Entry 23 | Pass |
| Total Lead Content | REACH Annex XVII, Entry 63 | Pass |
| SCCP Content | Regulation (EC) No 850/2004 (Persistent Organic Pollutants, POPs) and its amendment Regulation (EU) 2015/2030 | Pass |
| Polycyclic Aromatic Hydrocarbons (PAHs) | German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs) | Pass |
| Phthalates Content | REACH Annex XVII Entry 51 & 52 and Client's Requirement | Pass |

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

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Terric Ji
Lab Manager

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SAMPLE PHOTO



EFSH16052145-CG-01

TO BE CONTINUED

COMPONENT LIST

| Component No. | Component |
|---------------|--------------------------|
| 1 | White plastic |
| 2 | Transparent plastic film |

TO BE CONTINUED

TEST RESULT

Organic-Tin Compounds

Test Request: Organic-tin compounds as specified in Regulation (EC) No 552/2009 and 276/2010 amending entry 20 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: With reference to ISO 17353:2004 with carbamate, analysis was performed by GC-MS

| Tested Item(s) | Unit | MDL | Result | |
|---------------------|-------|-----|--------|----|
| | | | 1 | 2 |
| Dibutyl tin (DBT) | mg/kg | 0.5 | ND | ND |
| Tributyl tin (TBT) | mg/kg | 0.5 | ND | ND |
| Diocetyl tin (DOT) | mg/kg | 0.5 | ND | ND |
| Triphenyl tin (TPT) | mg/kg | 0.5 | ND | ND |

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

(a) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.

(b) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:

(b-1) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;

(b-2) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;

(b-3) any totally or partly submerged appliance or equipment.

(c) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.

(d) TBT and TPT compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0.1% by weight of tin; otherwise, articles shall not be placed on the market.

(e) DBT compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0.1% by weight of tin; otherwise, articles and mixtures shall not be placed on the market.

(f) DOT compounds shall not be used after 1 January 2012 in some textile, childcare article etc. for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0.1% by weight of tin; otherwise, articles shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 and 276/2010 to get more detail information.

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | |
|----------------|------|-------|--------|--------|----|
| | | | | 1 | 2 |
| Total Cadmium | % | 0.01 | 0.0005 | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

Total Lead Content

Test Request: Total lead content as specified in Regulation (EC) No 836/2012 amending entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion method was used and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL | Result | |
|----------------|------|-------|-------|--------|----|
| | | | | 1 | 2 |
| Total Lead | % | 0.05 | 0.001 | ND | ND |

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

SCCP Content

Test Request: SCCP content as specified in Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants as regards Annex I and its amendment Regulation (EU) 2015/2030.

Test Method: With reference to EPA 3550C:2007, EPA 8270D:2007. Solvent extraction and quantification by GC-MS.

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | |
|---|------------|------|-------|-------|--------|----|
| | | | | | 1 | 2 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | % | 0.15 | 0.005 | ND | ND |

Note:

MDL = method detection limit

ND = not detected, less than MDL

As per client's request, only the appointed materials have been tested.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

- Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)
- Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement
- Requirement : AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

| Parameter | CAS No. | Unit | Result | |
|---|---|-------|--------|------|
| | | | 1 | 2 |
| Benzo(a)pyrene | 50-32-8 | mg/kg | ND | ND |
| Benzo(e)pyrene | 192-97-2 | mg/kg | ND | ND |
| Benzo(a)anthracene | 56-55-3 | mg/kg | ND | ND |
| Benzo(b)fluoranthene | 205-99-2 | mg/kg | ND | ND |
| Benzo(j)fluoranthene | 205-82-3 | mg/kg | ND | ND |
| Benzo(k)fluoranthene | 207-08-9 | mg/kg | ND | ND |
| Chrysene | 218-01-9 | mg/kg | ND | ND |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/kg | ND | ND |
| Benzo(ghi)perylene | 191-24-2 | mg/kg | ND | ND |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | mg/kg | ND | ND |
| Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | - | mg/kg | ND | ND |
| Naphthalene | 91-20-3 | mg/kg | ND | ND |
| Sum 18 PAHs | - | mg/kg | ND | ND |
| Summary to above mentioned requirement: | For Category 2 (Other products under ProdSG) | | Pass | Pass |

Note:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

As per client's request, only the appointed materials have been tested.

TO BE CONTINUED

TEST RESULT

Table 1

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

| Parameter | Unit | Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact) | Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or short-term repetitive contact with the human skin | | Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact) | |
|--|-------|--|---|-----------------------------|---|-----------------------------|
| | | - | Toys under Directive 2009/48/EC | Other products under ProdSG | Toys under Directive 2009/48/EC | Other products under ProdSG |
| Benzo(a)pyrene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(e)pyrene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(a)anthracene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(b)fluoranthene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(j)fluoranthene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Chrysene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Benzo(ghi)perylene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | <0.2 | <0.2 | <0.5 | <0.5 | <1 |
| Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | mg/kg | <1 Sum* | <5 Sum* | <10 Sum* | <20 Sum* | <50 Sum* |
| Naphthalene | mg/kg | <1 | <2 | | <10 | |
| Sum* 18 PAHs | mg/kg | <1 | <5 | <10 | <20 | <50 |

* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in Regulation (EU) 2015/326 amending entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and Client's Requirement.

Test Method: Whit reference to EN 14372, CPSC-CH-C1001-09.3, solvent extraction and quantification by GC-MS.

| Tested Item(s) | CAS No. | Unit | Limit | MDL | Result | |
|---|---------------------------|------|-------|-------|--------|-------|
| | | | | | 1 | 2 |
| Dibutylphthalate (DBP) | 84-74-2 | % | - | 0.005 | ND | ND |
| Benzyl butylphthalate (BBP) | 85-68-7 | % | - | 0.005 | ND | ND |
| Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | % | - | 0.005 | ND | ND |
| Sum of three phthalates (DBP+BBP+DEHP) | - | % | 0.1 | 0.005 | ND | ND |
| Di-n-octylphthalate (DNOP) | 117-84-0 | % | - | 0.005 | ND | ND |
| Di-iso-decylphthalate (DIDP) | 26761-40-0, 68515-49-1 | % | - | 0.005 | ND | ND |
| Di-iso-nonylphthalate (DINP) | 28553-12-0, 68515-48-0 | % | - | 0.005 | ND | ND |
| Sum of three phthalates (DNOP+DINP+DIDP) | - | % | 0.1 | 0.005 | ND | ND |
| Diisobutyl phthalate (DIBP) | 84-69-5 | % | 0.1 | 0.005 | ND | 0.008 |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | % | 0.1 | 0.005 | ND | ND |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | % | 0.1 | 0.005 | ND | ND |
| Bis(2-methoxyethyl) Phthalate (DMEP) | 117-82-8 | % | 0.1 | 0.005 | ND | ND |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP) | 84777-06-0 | % | 0.1 | 0.005 | ND | ND |
| Diisopentylphthalate (DIPP) | 605-50-5 | % | 0.1 | 0.005 | ND | ND |
| N-pentyl-isopentylphthalate (NPIPP) | 776297-69-9 | % | 0.1 | 0.005 | ND | ND |
| Dipentyl phthalate (DnPP) | 131-18-0 | % | 0.1 | 0.005 | ND | ND |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DIHP) | 68515-50-4 | % | 0.1 | 0.005 | ND | ND |
| 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) | 68515-51-5, 68648-93-1 | % | 0.1 | 0.005 | ND | ND |
| Diheptyl phthalate (DHP) | 3648-21-3 | % | 0.1 | 0.005 | ND | ND |

Note:

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*** END OF THE REPORT ***