

## Test Report

No. SHAEC1502369303

Date: 10 Feb 2015

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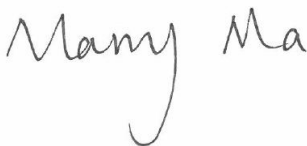
POLYSOURCE INC

555 E STATLER RD PIQUA OH 45356 UNITED STATES

The following sample(s) was/were submitted and identified on behalf of the clients as : EPS PELLETS  
PSI-205T

SGS Job No. : SP15-004024 - SH  
Date of Sample Received : 06 Feb 2015  
Testing Period : 06 Feb 2015 - 10 Feb 2015  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Marry Ma  
Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description          |
|--------------|------------------|----------------------|
| SN1          | SHA15-023693.003 | Black plastic pellet |

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Polycyclic aromatic hydrocarbons (PAHs)**

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

| Test Item(s)  | Unit  | MDL | 003 |
|---|-------|-----|-----|
| Sum of 18 PAHs  | mg/kg | -   | ND  |
| Naphthalene(NAP)  | mg/kg | 0.1 | ND  |
| Acenaphthylene(ANY)                                     | mg/kg | 0.1 | ND  |
| Acenaphthene(ANA)                                       | mg/kg | 0.1 | ND  |
| Fluorene(FLU)   | mg/kg | 0.1 | ND  |
| Phenanthrene(PHE)                                       | mg/kg | 0.1 | ND  |
| Anthracene(ANT)   | mg/kg | 0.1 | ND  |
| Fluoranthene(FLT)                                       | mg/kg | 0.1 | ND  |
| Pyrene(PYR)   | mg/kg | 0.1 | ND  |
| Benzo(a)anthracene(BaA)                                 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)   | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF) | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)                               | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)                                     | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)                                     | mg/kg | 0.1 | ND  |
| Indeno(1,2,3-c,d)pyrene(IPY)                            | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA)                             | mg/kg | 0.1 | ND  |
| Benzo(g,h,i)perylene(BPE)                               | mg/kg | 0.1 | ND  |

Notes :

Above 8 PAHs(BaA,CHR,BbF,BjF,BkF,BeP,BaP,DBA) are listed in Commission Regulation (EU) No



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1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006.

(1) In order to protect the health of consumers from the risk arising from exposure to PAHs in articles, limits on the PAH content in the accessible plastic or rubber parts of articles should be set, and the placing on the market of articles containing any of the PAHs in concentrations greater than 1 mg/kg in those parts should be prohibited.

(2) Taking into account the vulnerability of children a lower limit value should be established. Therefore the placing on the market of toys and childcare articles, containing any of the PAHs in concentrations greater than 0,5 mg/kg in their accessible plastic or rubber parts, should be prohibited.

ZEK 01.4-08: Restraining maximum values for products

| Parameter               | Category 1   | Category 2   | Category 3   |
|-------------------------|--|--|--|
|                         | Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months | Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact). | Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact). |
| Benzo(a)pyrene (mg/kg)  | <0.2**   | 1  | 20   |
| Sum of 18 PAHs (mg/kg)* | <0.2**   | 10   | 200  |

Notes:

- \* = Only PAH substances >0.1 mg/kg are taken into account while calculating the sum of PAHs
- \*\* = 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 indented 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.



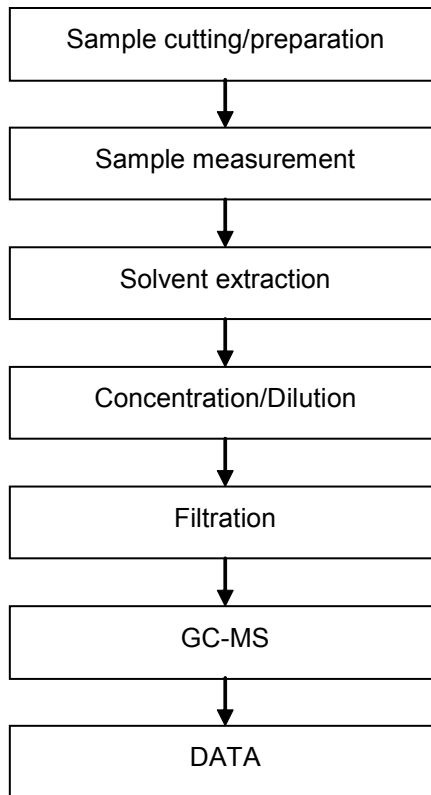
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ATTACHMENTS

PAHs Testing Flow Chart

- 1) Name of the person who made testing: Lisa Duan
- 2) Name of the person in charge of testing: Myra ma



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