

TEST REPORT

No. : XMIN181202379CCM

Date : Dec.14, 2018

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CUSTOMER NAME: QUANZHOU XINXING STONE TECHNIC CO LTD
ADDRESS: SHIJING TOWN, NAN' AN CITY, QUANZHOU CITY, FUJIAN PROVINCE

Sample Name : 1085
Intended Use : Internal and external flooring and stairs

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test required : EN 15285:2008 Agglomerated stone – Modular tiles for flooring and stairs (internal and external)

SGS Ref. No. : XMNMLC1801677501, .SHIN181203558CCM, GZIN1812063557MR

Date of Receipt : Dec.03, 2018

Testing Start Date : Dec.03, 2018

Testing End Date : Dec.14, 2018

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Xiamen Branch
Testing Center

Civi Huang Authorized Signatory



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Summary of test results:

| Clause | Test items | Test methods | Test results | Page | |
|--------|---|---------------------|--------------------------------|----------------------------|----|
| 1 | Water absorption | EN 14617-1:2013 | 0.16% | 3 | |
| | Apparent density | | Classification: W ₃ | | |
| 2 | Flexural strength | EN 14617-2:2016 | 2308 kg/m ³ | 4 | |
| | | | 43.2 MPa | | |
| 3 | Abrasion resistance (polished) | EN 14617-4:2012 | Classification: F ₄ | 4 | |
| | | | 22.4mm | | |
| 4 | Resistance to fixing (dowel hole) | EN 14617-8:2007 | Classification: A ₄ | 5 | |
| | | | 2346N | | |
| 5 | Impact resistance | EN 14617-9:2005 | 4.76J | 6 | |
| 6 | Chemical resistance | EN 14617-10:2012 | Classification: C ₄ | 7 | |
| 7 | Linear thermal expansion coefficient | EN 14617-11:2005 | 22.0×10 ⁻⁶ /°C | 8 | |
| 8 | Dimensional stability | EN 14617-12:2012 | Class: A | 8 | |
| | | | Vertical displacement:0.01 mm | | |
| 9 | Dimensions, geometric characteristics and surface quality | EN 14617-16:2005 | Tolerance: see the following | 9 | |
| | | | Surface quality: No defects | | |
| 10 | Thermal conductivity | EN 12664:2001 | 0.522 W/(m·K) | 10 | |
| 11 | Electrical resistivity | EN 14617-13:2013 | Surface Resistivity | 1.26×10 ¹⁴ Ω/sq | 11 |
| | | | Volume Resistivity | 6.22×10 ¹³ Ω·cm | 11 |
| 12 | Release of danger substances (SVHC 191 substances) | SGS In-House method | ≤0.1%(w/w) Not detected | 12 | |

Note: 1. Thermal performance was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch Testing Center

2. Electrical resistivity was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center.

***** To be continued*****



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1. Apparent density and water absorption

Test Method:

EN 14617-1:2013 Agglomerated stone - Test methods - Part 1: Determination of apparent density and water absorption

Specimens: Agglomerated stone, 100mm×100mm×10mm, 6pcs, one face polished

Test Result:

| Specimens identification No. | 1 | 2 | 3 | 4 | 5 | 6 |
|--|------|------|------|------|------|------|
| Water absorption (%) | 0.16 | 0.17 | 0.18 | 0.14 | 0.16 | 0.16 |
| Arithmetic mean of the water absorption (%) | 0.16 | | | | | |
| Apparent density (kg/m ³) | 2306 | 2310 | 2310 | 2307 | 2307 | 2309 |
| Arithmetic mean of the apparent density (kg/m ³) | 2308 | | | | | |

Classification according to EN 15285:2008: W₃^{note}

Note: W₁>2.0%, 2.0%≥W₂>0.5%, 0.5%≥W₃>0.05%, W₄≤0.05%

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2. Flexural strength in natural condition

Test Method:

EN 14617-2:2016 Agglomerated stone - Test methods - Part 2: Determination of flexural strength (bending)

Specimens: Agglomerated stone, 200mm×50mm×20mm, 10pcs, one face polished

Loading rate: (0.25±0.05)MPa/s

Test Result:

| Specimens identification No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|
| Flexural strength (MPa) | 44.0 | 43.8 | 44.9 | 42.5 | 39.5 | 42.6 | 46.5 | 45.6 | 40.2 | 42.0 |
| Mean value (MPa) | 43.2 | | | | | | | | | |
| Standard deviation (MPa) | 2.3 | | | | | | | | | |
| Lower expected value (MPa) | 38.6 | | | | | | | | | |

Classification according to EN 15285:2008: F₄^{note}

Note: F₁<12.0MPa, 12.0MPa≤F₂<25.0MPa, 25.0MPa≤F₃<40.0MPa, F₄≥40.0MPa

3. Abrasion resistance

Test Method:

EN 14617-4:2012 Agglomerated stone - Test methods - Part 4: Determination of abrasion resistance

Specimens: Agglomerated stone, 150mm×100mm×20mm, 6pcs, one face polished

Testing surface: polished

Test Result:

| Specimens identification No. | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------------|------|------|------|------|------|------|
| The length of the groove (mm) | 23.0 | 22.5 | 22.5 | 22.0 | 22.5 | 22.0 |
| Mean value (mm) | 22.4 | | | | | |

Classification according to EN 15285:2008: A₄^{note}

Note: A₁>36.5mm, 36.5mm≥A₂>33.0mm, 33.0mm≥A₃>29.0mm, A₄≤29.0mm.

***** To be continued*****



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4. Resistance to fixing (dowel hole)

Test Method:

EN 14617-8:2007 Agglomerated stone - Test methods - Part 8: Determination of resistance to fixing (dowel hole)

Specimens: Agglomerated stone, 200mm×200mm×20mm, 3pcs, one face polished, 4 holes were drilled on each specimen.

Diameter of the hole: 10mm, Diameter of the dowel: 8mm

Loading rate: (50±5) N/s

Test results:

| Specimens identification No. | | d ₁ (mm) | b _A (mm) | Breaking load F (N) |
|------------------------------|--------|---------------------|---------------------|---------------------|
| 1 | Hole 1 | 5 | 21 | 2100 |
| | Hole 2 | 7 | 22 | 2450 |
| | Hole 3 | 5 | 20 | 2350 |
| | Hole 4 | 6 | 27 | 2600 |
| 2 | Hole 1 | 5 | 20 | 2000 |
| | Hole 2 | 4 | 21 | 2250 |
| | Hole 3 | 4 | 22 | 2250 |
| | Hole 4 | 5 | 18 | 2300 |
| 3 | Hole 1 | 5 | 18 | 2150 |
| | Hole 2 | 6 | 23 | 2300 |
| | Hole 3 | 6 | 24 | 2550 |
| | Hole 4 | 6 | 24 | 2850 |
| Mean value | | 5 | 22 | 2346 |
| Lower expected value | | / | / | 1881 |
| Standard deviation | | / | / | 236 |

d₁: Distance from the hole to the face

b_A: Maximum distance from the centre of the hole to the edge of the fracture

*****To be continued*****



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5. Impact resistance

Test Method:

EN 14617-9:2005 Agglomerated stone - Test methods - Part 9: Determination of impact resistance

Specimens: Agglomerated stone, 200mm×200mm×20mm, 4pcs, one face polished

Testing surface: polished

Test Result:

| Specimens identification No. | 1 | 2 | 3 | 4 |
|------------------------------|------|------|------|------|
| Drop height, h (m) | 0.45 | 0.45 | 0.45 | 0.50 |
| Fracture work, L (J) | 4.63 | 4.63 | 4.63 | 5.15 |
| Average value (J) | 4.76 | | | |

Note:

The fracture work L in joule is expressed by the formula

$$L = M \times h \times g$$

Where

M is the sphere mass, 1.050kg,

h is the drop height in meters of the sphere which causes the sample to break,

g is the gravity acceleration equal to 9.806m/s².

***** To be continued*****



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6. Chemical resistance

Test Method:

EN 14617-10:2012 Agglomerated stone - Test methods - Part 10: Determination of chemical resistance

Specimens: Agglomerated stone, 200mm×200mm×20mm, 4pcs, polished surface

Water solutions preparation:

- 1) Hydrochloric acid solution, 50% (V/V), prepared from N hydrochloric acid solution
- 2) Sodium hydroxide solution, 50% (V/V), prepared from a normal water sodium hydroxide non-carbonated solution

Type of glossmeter used and the kind and intensity of the light source: Sheen 260, CIE D65

Reflection direction of the light: 60°

Test Result:

| Chemical resistance | Sample NO. | Reference value | Classification |
|----------------------------------|------------|-----------------|---------------------|
| Hydrochloric acid solution (HCl) | 1 (1h) | 96.3% | C ₄ note |
| | 2 (8h) | 94.9% | |
| Sodium hydroxide solution (NaOH) | 3 (1h) | 85.4% | |
| | 4 (8h) | 97.0% | |

Note:

C₁: Agglomerated stones which keep less than 60 % of the reference reflection values (see EN 14617-10) after 1 h ± 30 min of alkali and acid attack.

C₂: Agglomerated stones which keep between 60 % and 80 % of the reference reflection value (see EN 14617-10) after 1 h ± 30 min of alkali and acid attack.

C₃: Agglomerated stones which keep between 60 % and 80 % of the reference reflection value (see EN 14617-10) after 8 h ± 30 min of alkali and acid attack.

C₄: Agglomerated stones which keep at least 80 % of the reference reflection value (see EN 14617-10) after 8 h ± 30 min of acid and alkali attack (or if only in one specimen the attack is between 60 % and 80 %, see EN 14617-10).

***** To be continued*****



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7. Linear thermal expansion coefficient

Test Method:

EN 14617-11:2005 Agglomerated stone - Test methods - Part 11: Determination of linear thermal expansion coefficient

Specimens: Agglomerated stone, 50mm×10mm×10mm, 3pcs, one face polished

Heating rate: 3°C/min

Test Result:

Temperature: range from 30°C to 60°C.

| Specimens identification No. | 1 | 2 | 3 |
|---|------|------|------|
| Linear thermal expansion coefficient (10 ⁻⁶ /°C) | 22.5 | 21.8 | 21.8 |
| Mean value(10 ⁻⁶ /°C) | 22.0 | | |

8. Dimensional stability

Test Method:

EN 14617-12:2012 Agglomerated stone - Test methods - Part 12: Determination of dimensional stability

Specimens: Agglomerated stone, 300mm×300mm×20mm, 1pcs, one face polished

Test Result:

Vertical displacement: 0.01mm.

Classification: Class A^{note}

Note:

Vertical displacement after the test

Class A: ≤ 0.3 mm

Class B: > 0.3 mm and ≤ 0.6 mm

Class C: > 0.6 mm

***** To be continued*****



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9. Dimensions, geometric characteristics and surface quality

Test Method:

EN 14617-16:2005 Agglomerated stone - Test methods - Part 16: Determination of dimensions, geometric characteristics and surface quality of modular tiles

Specimens: Agglomerated stone, 300mm×300mm×20mm, 10pcs, one face polished

Test Result:

Work size: 300mm×300mm×20mm

| Test items | | Requirements: EN 15285:2008 | Test results |
|-----------------|---|--------------------------------|----------------|
| Length | Average dimension of 10 test specimens | 300± 0.5 mm | 300.22mm |
| | The deviation, as a percentage, of the average size of each tile from work size | / | 0.03%~ 0.10% |
| Thickness | Average thickness of 10 test specimens | 20± 0.7 mm | 20.15mm |
| | The deviation, as a percentage, of the average thickness of each tile from the work size thickness | / | 0.5%~ 1.15% |
| Straightness | Maximum deviation from straightness | ± 0.3 mm | -0.03mm~0.06mm |
| Rectangularity | Maximum deviation from rectangularity | ± 0.9 mm | -0.15mm~0.28mm |
| Flatness | Maximum centre curvature, as a percentage, related to the length | ± 2 % referred to length | -0.06%~0.05% |
| | Maximum edge curvature, as a percentage, related to the length | ± 2 % referred to length | -0.05%~ 0.04% |
| | Maximum warping, as a percentage, related to the length | ± 2 % referred to length | -0.01%~ 0.01% |
| Surface quality | Any visual variations are permissible provided that they are characteristic of the relevant type of agglomerated stone and provided that they do not adversely affect the performance of the tiles. | / | No defects |

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10. Thermal conductivity

Test method: EN 12664:2001 Heat flow meter method

Test condition:

Specimen: 300mm×300mm×20.5mm, 1pc

Density: about 2305kg/m³

Mean temperature: 23°C

Temperature difference: 10°C

Lab environmental condition: 23±2°C, 50±5%RH

Test result:

| Test Item | Test Result |
|----------------------|---------------|
| Thermal conductivity | 0.522 W/(m·K) |

Note: The test result can not be compared with other results obtained from different test conditions and should not be cited to the use condition directly.

***** To be continued*****



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11. Electrical resistivity

Surface Resistivity

Test Method:

EN 14617-13:2013 Agglomerated stone - Test methods - Part 13: Determination of electrical resistivity

Test Condition:

Precondition: Oven: 70± 5 °C, 24 h → Dessicator: 23± 2 °C, 24 h

Test condition: 23 ± 2 °C, 50 ± 5 %RH

Test electrode diameter: 50 mm

Gap width: 10.0 mm

Test voltage: 500 Vdc

Electrification time: 1 min

Test Result:

| Specimen | Test Result | |
|----------|---------------------------------------|--|
| | Surface Resistance R_s (Ω) | Surface Resistivity ρ_s (Ω /sq) |
| A-#1 | 1.16×10 ¹³ | 2.18×10 ¹⁴ |
| A-#2 | 6.22×10 ¹² | 1.17×10 ¹⁴ |
| A-#3 | 2.77×10 ¹¹ | 5.22×10 ¹² |
| A-#4 | 1.10×10 ¹² | 2.07×10 ¹³ |
| A-#5 | 1.43×10 ¹³ | 2.69×10 ¹⁴ |
| Average | 6.70×10 ¹² | 1.26×10 ¹⁴ |

***** To be continued*****



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Volume Resistivity

Sample Description: See photo

Test Method:

EN 14617-13:2013 Agglomerated stone - Test methods - Part 13: Determination of electrical resistivity

Test Condition:

Precondition: Oven: 70± 5 °C, 24 h → Dessicator: 23± 2 °C, 24 h

Test condition: 23 ± 2 °C, 50 ±5 %RH

Test electrode diameter: 50 mm

Gap width: 10.0 mm

Test voltage: 500 Vdc

Electrification time: 1 min

Test Result:

| Specimen | Specimen Thickness (mm) | Test Result | |
|----------|-------------------------|--------------------------------------|--|
| | | Volume Resistance R _v (Ω) | Volume Resistivity ρ _v (Ω·cm) |
| A-#1 | 7.50 | 2.60×10 ¹² | 9.80×10 ¹³ |
| A-#2 | 7.06 | 1.58×10 ¹² | 6.32×10 ¹³ |
| A-#3 | 7.15 | 1.07×10 ¹² | 4.23×10 ¹³ |
| A-#4 | 8.04 | 1.66×10 ¹² | 5.83×10 ¹³ |
| A-#5 | 8.42 | 1.46×10 ¹² | 4.90×10 ¹³ |
| Average | -- | 1.67×10 ¹² | 6.22×10 ¹³ |

Summary of Results:

| No. | Test Item | Test Method | Result | Conclusion |
|-----|---------------------|---------------------|----------------------------|------------|
| 1 | Surface Resistivity | EN 14617-13:2005(E) | 1.26×10 ¹⁴ Ω/sq | / |
| 2 | Volume Resistivity | EN 14617-13:2005(E) | 6.22×10 ¹³ Ω·cm | / |

***** To be continued *****



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12. Release of danger substances (SVHC 191 substances)

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

Test Requested:

As requested by client, SVHC screening is performed according to:

One hundred and sixty eight (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 17, 2015 regarding Regulation (EC) No 1907/2006 concerning the REACH..

Summary:

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample. **PASS**

Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: <http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
Communication:
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

***** To be continued*****



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SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in

the

Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety

***** To be continued*****



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------------|
| SN1 | XMN18-016772.001 | White solid slate |

Test Method :

SGS In-House method- XMTC-CHEM-TOP-022-01, XMTC-CHEM-TOP-022-02, XMTC-CHEM-TOP-022-03, analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

***** To be continued*****



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Test Result: (Substances in the Candidate List of SVHC)

| Batch | Substance Name | CAS No. | 001 Concentration (%) | RL (%) |
|-------|-------------------------------------|---------|--------------------------|--------|
| VIII | N,N-dimethylformamide | 68-12-2 | 0.079 | 0.050 |
| - | Other tested SVHC in candidate list | - | ND | - |

***** To be continued*****



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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Notes :

1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL),

ND is denoted on the SVHC substance.

3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.

** The test result is based on the calculation of selected marker(s) and to the worst-case

scenario.For

detail information,

please refer to the SGS REACH website :

[http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-](http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx)

ment-

of-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by

ICP-OES.

6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.

7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4,

260-566-1.

8. § The substance is proposed for the identification as SVHC only where it contains

Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|--------------------------|--------|
| I | 1 | 4,4' -Diaminodiphenylmethane(MDA) | 101-77-9 | 0.050 |
| I | 2 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 0.050 |
| I | 3 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 0.050 |
| I | 4 | Anthracene | 120-12-7 | 0.050 |
| I | 5 | Benzyl butyl phthalate (BBP) | 85-68-7 | 0.050 |
| I | 6 | Bis (2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 0.050 |
| I | 7 | Bis(tributyltin)oxide (TBTO) | 56-35-9 | 0.050 |
| I | 8 | Cobalt dichloride* | 7646-79-9 | 0.005 |
| I | 9 | Diarsenic pentaoxide* | 1303-28-2 | 0.005 |
| I | 10 | Diarsenic trioxide* | 1327-53-3 | 0.005 |
| I | 11 | Dibutyl phthalate (DBP) | 84-74-2 | 0.050 |
| I | 12 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ | 25637-99-4,3194-55-6 | 0.050 |
| I | 13 | Lead hydrogen arsenate* | 7784-40-9 | 0.005 |
| I | 14 | Sodium dichromate* | 7789-12-0, 10588-01-9 | 0.005 |
| I | 15 | Triethyl arsenate* | 15606-95-8 | 0.005 |
| II | 16 | 2,4-Dinitrotoluene | 121-14-2 | 0.050 |
| II | 17 | Acrylamide | 79-06-1 | 0.050 |
| II | 18 | Anthracene oil** | 90640-80-5 | 0.050 |
| II | 19 | Anthracene oil, anthracene paste** | 90640-81-6 | 0.050 |
| II | 20 | Anthracene oil, anthracene paste, anthracene fraction** | 91995-15-2 | 0.050 |
| II | 21 | Anthracene oil, anthracene paste, distn. lights** | 91995-17-4 | 0.050 |
| II | 22 | Anthracene oil, anthracene-low** | 90640-82-7 | 0.050 |
| II | 23 | Diisobutyl phthalate | 84-69-5 | 0.050 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|--|--------|
| II | 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)* | 12656-85-8 | 0.005 |
| II | 25 | Lead chromate* | 7758-97-6 | 0.005 |
| II | 26 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)* | 1344-37-2 | 0.005 |
| II | 27 | Pitch, coal tar, high temp.** | 65996-93-2 | 0.050 |
| II | 28 | Tris(2-chloroethyl)phosphate | 115-96-8 | 0.050 |
| III | 29 | Ammonium dichromate* | 7789-09-05 | 0.005 |
| III | 30 | Boric acid* | 10043-35-3, 11113-50-1 | 0.005 |
| III | 31 | Disodium tetraborate, anhydrous* | 1303-96-4, 1330-43-4, 12179-04-3 | 0.005 |
| III | 32 | Potassium chromate* | 7789-00-6 | 0.005 |
| III | 33 | Potassium dichromate* | 7778-50-9 | 0.005 |
| III | 34 | Sodium chromate* | 7775-11-03 | 0.005 |
| III | 35 | Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 0.005 |
| III | 36 | Trichloroethylene | 79-01-6 | 0.050 |
| IV | 37 | 2-Ethoxyethanol | 110-80-5 | 0.050 |
| IV | 38 | 2-Methoxyethanol | 109-86-4 | 0.050 |
| IV | 39 | Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid* | 7738-94-5,- 13530-68-2 | 0.005 |
| II | 28 | Tris(2-chloroethyl)phosphate | 115-96-8 | 0.050 |
| III | 29 | Ammonium dichromate* | 7789-09-05 | 0.005 |
| III | 30 | Boric acid* | 10043-35-3, 11113-50-1 | 0.005 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|---------------------------|--------|
| III | 31 | Disodium tetraborate, anhydrous* | 1303-96-4, | 0.005 |
| III | 32 | Potassium chromate* | 7789-00-6 | 0.005 |
| III | 33 | Potassium dichromate* | 7778-50-9 | 0.005 |
| III | 34 | Sodium chromate* | 7775-11-03 | 0.005 |
| III | 35 | Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 0.005 |
| III | 36 | Trichloroethylene | 79-01-6 | 0.050 |
| IV | 37 | 2-Ethoxyethanol | 110-80-5 | 0.050 |
| IV | 38 | 2-Methoxyethanol | 109-86-4 | 0.050 |
| IV | 39 | Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid* | 7738-94-5,- 13530-68-2 | 0.005 |
| IV | 40 | Chromium trioxide* | 1333-82-0 | 0.005 |
| IV | 41 | Cobalt(II) carbonate* | 513-79-1 | 0.005 |
| IV | 42 | Cobalt(II) diacetate* | 71-48-7 | 0.005 |
| IV | 43 | Cobalt(II) dinitrate* | 10141-05-6 | 0.005 |
| IV | 44 | Cobalt(II) sulphate* | 10124-43-3 | 0.005 |
| V | 45 | 1,2,3-trichloropropane | 96-18-4 | 0.050 |
| V | 46 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6 | 0.050 |
| V | 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4 | 0.050 |
| V | 48 | 1-methyl-2-pyrrolidone | 872-50-4 | 0.050 |
| V | 49 | 2-ethoxyethyl acetate | 111-15-9 | 0.050 |
| V | 50 | Hydrazine | 7803-57-8, 302-01-2 | 0.050 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|--|--------|
| V | 51 | Strontium chromate* | 7789-06-02 | 0.005 |
| VI | 52 | 1,2-Dichloroethane | 107-06-2 | 0.050 |
| VI | 53 | 2,2'-dichloro-4,4'-methylenedianiline | 101-14-4 | 0.050 |
| VI | 54 | 2-Methoxyaniline; o-Anisidine | 90-04-0 | 0.050 |
| VI | 55 | 4-(1,1,3,3-tetramethylbutyl)phenol | 140-66-9 | 0.050 |
| VI | 56 | Aluminosilicate Refractory Ceramic Fibres * | 650-017-00-8 (Index no.) | 0.005 |
| VI | 57 | Arsenic acid* | 7778-39-4 | 0.005 |
| VI | 58 | Bis(2-methoxyethyl) ether | 111-96-6 | 0.050 |
| VI | 59 | Bis(2-methoxyethyl) phthalate | 117-82-8 | 0.050 |
| VI | 60 | Calcium arsenate* | 7778-44-1 | 0.005 |
| VI | 61 | Dichromium tris(chromate) * | 24613-89-6 | 0.005 |
| VI | 62 | Formaldehyde, oligomeric reaction products with aniline | 25214-70-4 | 0.050 |
| VI | 63 | Lead diazide, Lead azide* | 13424-46-9 | 0.005 |
| VI | 64 | Lead dipicrate* | 6477-64-1 | 0.005 |
| VI | 65 | Lead styphnate* | 15245-44-0 | 0.005 |
| VI | 66 | N,N-dimethylacetamide | 127-19-5 | 0.050 |
| VI | 67 | Pentazinc chromate octahydroxide* | 49663-84-5 | 0.005 |
| VI | 68 | Phenolphthalein | 77-09-8 | 0.050 |
| VI | 69 | Potassium hydroxyoctaoxodizincatedichromate* | 11103-86-9 | 0.005 |
| VI | 70 | Trilead diarsenate* | 3687-31-8 | 0.005 |
| VI | 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres* | 650-017-00-8 (Index no.) 1330-43-4, 12179-04-3 | 0.005 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch No. | Substance Name | CAS No. | RL (%) |
|-----------|---|------------|--------|
| VII 72 | [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§ | 2580-56-5 | 0.050 |
| VII 73 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§ | 548-62-9 | 0.050 |
| VII 74 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 | 0.050 |
| VII 75 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 0.050 |
| VII 76 | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone) | 90-94-8 | 0.050 |
| VII 77 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§ | 561-41-1 | 0.050 |
| VII 78 | Diboron trioxide* | 1303-86-2 | 0.005 |
| VII 79 | Formamide | 75-12-7 | 0.050 |
| VII 80 | Lead(II) bis(methanesulfonate)* | 17570-76-2 | 0.005 |
| VII 81 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | 0.050 |
| VII 82 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | 2451-62-9 | 0.050 |
| VII 83 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) § | 6786-83-0 | 0.050 |
| VII 84 | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 59653-74-6 | 0.050 |
| VIII 85 | [Phthalato(2-)]dioxotrilead* | 69011-06-9 | 0.005 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|--|-----------------------------------|--------|
| VIII | 86 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 0.050 |
| VIII | 87 | 1,2-Diethoxyethane | 629-14-1 | 0.050 |
| VIII | 88 | 1-Bromopropane | 106-94-5 | 0.050 |
| VIII | 89 | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 0.050 |
| VIII | 90 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated | - | 0.050 |
| VIII | 91 | 4,4'-Methylenedi-o-toluidine | 838-88-0 | 0.050 |
| VIII | 92 | 4,4'-Oxydianiline and its salts | 101-80-4 | 0.050 |
| VIII | 93 | 4-Aminoazobenzene | 60-09-03 | 0.050 |
| VIII | 94 | 4-Methyl-m-phenylenediamine | 95-80-7 | 0.050 |
| VIII | 95 | 4-Nonylphenol, branched and linear | - | 0.050 |
| VIII | 96 | 6-Methoxy-m-toluidine | 120-71-8 | 0.050 |
| VIII | 97 | Acetic acid, lead salt, basic* | 51404-69-4 | 0.005 |
| VIII | 98 | Biphenyl-4-ylamine | 92-67-1 | 0.050 |
| VIII | 99 | Bis(pentabromophenyl) ether (DecaBDE) | 1163-19-5 | 0.050 |
| VIII | 100 | Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | 85-42-7,13149-00-3,1 4166-21-3 | 0.050 |
| VIII | 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 0.050 |
| VIII | 102 | Dibutyltin dichloride (DBTC) | 683-18-1 | 0.050 |
| VIII | 103 | Diethyl sulphate | 64-67-5 | 0.050 |
| VIII | 104 | Diisopentylphthalate | 605-50-5 | 0.050 |
| VIII | 105 | Dimethyl sulphate | 77-78-1 | 0.050 |
| VIII | 106 | Dinoseb | 88-85-7 | 0.050 |
| VIII | 107 | Dioxobis(stearato)trilead* | 12578-12-0 | 0.005 |
| VIII | 108 | Fatty acids, C16-18, lead salts* | 91031-62-8 | 0.005 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|--|-------------|--------|
| VIII | 109 | Furan | 110-00-9 | 0.050 |
| VIII | 110 | Henicosaflluoroundecanoic acid | 2058-94-8 | 0.050 |
| VIII | 111 | Heptacosaflluorotetradecanoic acid | 376-06-7 | 0.050 |
| VIII | 112 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | ☆ | 0.050 |
| VIII | 113 | Lead bis(tetrafluoroborate)* | 13814-96-5 | 0.005 |
| VIII | 114 | Lead cyanamidate* | 20837-86-9 | 0.005 |
| VIII | 115 | Lead dinitrate* | 10099-74-8 | 0.005 |
| VIII | 116 | Lead monoxide* | 1317-36-8 | 0.005 |
| VIII | 117 | Lead oxide sulfate* | 12036-76-9 | 0.005 |
| VIII | 118 | Lead tetroxide (orange lead)* | 1314-41-6 | 0.005 |
| VIII | 119 | Lead titanium trioxide* | 12060-00-3 | 0.005 |
| VIII | 120 | Lead titanium zirconium oxide* | 12626-81-2 | 0.005 |
| VIII | 121 | Methoxyacetic acid | 625-45-6 | 0.050 |
| VIII | 122 | Methyloxirane (Propylene oxide) | 75-56-9 | 0.050 |
| VIII | 123 | N,N-dimethylformamide | 68-12-2 | 0.050 |
| VIII | 124 | N-Methylacetamide | 79-16-3 | 0.050 |
| VIII | 125 | N-Pentyl-isopentylphthalate | 776297-69-9 | 0.050 |
| VIII | 126 | o-Aminoazotoluene | 97-56-3 | 0.050 |
| VIII | 127 | o-Toluidine | 95-53-4 | 0.050 |
| VIII | 128 | Pentacosaflluorotridecanoic acid | 72629-94-8 | 0.050 |
| VIII | 129 | Pentalead tetraoxide sulphate* | 12065-90-6 | 0.005 |
| VIII | 130 | Pyrochlore, antimony lead yellow* | 8012-00-8 | 0.005 |

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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|--|------------|--------|
| VIII | 131 | Silicic acid, barium salt, lead-doped* | 68784-75-8 | 0.005 |
| VIII | 132 | Silicic acid, lead salt* | 11120-22-2 | 0.005 |
| VIII | 133 | Sulfurous acid, lead salt, dibasic* | 62229-08-7 | 0.005 |
| VIII | 134 | Tetraethyllead* | 78-00-2 | 0.005 |
| VIII | 135 | Tetralead trioxide sulphate* | 12202-17-4 | 0.005 |
| VIII | 136 | Tricosafuorododecanoic acid | 307-55-1 | 0.050 |
| VIII | 137 | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6 | 0.005 |
| VIII | 138 | Trilead dioxide phosphonate* | 12141-20-7 | 0.005 |
| IX | 139 | 4-Nonylphenol, branched and linear, ethoxylated | - | 0.050 |
| IX | 140 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 0.050 |
| IX | 141 | Cadmium oxide* | 1306-19-0 | 0.005 |
| IX | 142 | Cadmium* | 7440-43-9 | 0.005 |
| IX | 143 | Dipentyl phthalate (DPP) | 131-18-0 | 0.050 |
| IX | 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 0.050 |
| X | 145 | Cadmium sulphide* | 1306-23-6 | 0.005 |
| X | 146 | Dihexyl phthalate | 84-75-3 | 0.050 |
| X | 147 | Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 0.050 |
| X | 148 | Disodium 4-amino-3-[[4'-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7 | 0.050 |
| X | 149 | Imidazolidine-2-thione; (2-imidazoline-2-thiol) | 96-45-7 | 0.050 |
| X | 150 | Lead di(acetate)* | 301-04-2 | 0.005 |
| X | 151 | Trixylyl phosphate | 25155-23-1 | 0.050 |

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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|---------------------------|--------|
| XI | 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 0.050 |
| XI | 153 | Cadmium chloride* | 10108-64-2 | 0.005 |
| XI | 154 | Sodium perborate; perboric acid, sodium salt* | - | 0.005 |
| XI | 155 | Sodium peroxometaborate* | 7632-04-04 | 0.005 |
| XII | 156 | 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 0.050 |
| XII | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 0.050 |
| XII | 158 | 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE | 15571-58-1 | 0.050 |
| XII | 159 | Cadmium fluoride* | 7790-79-6 | 0.005 |
| XII | 160 | Cadmium sulphate* | 10124-36-4, 31119-53-6 | 0.005 |
| XII | 161 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE) | - | 0.050 |
| XIII | 162 | 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 | 68515-51-5, 68648-93-1 | 0.050 |
| XIII | 163 | 5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] | - | 0.050 |
| XIV | 164 | 1,3-propanesultone | 1120-71-4 | 0.050 |

***** To be continued*****



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Appendix

Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|---|--------------------------------|--------|
| XIV | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 | 0.050 |
| XIV | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 36437-37-3 | 0.050 |
| XIV | 167 | Nitrobenzene | 98-95-3 | 0.050 |
| XIV | 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts | 375-95-1,21049-39-8, 4149-60-4 | 0.050 |
| XV | 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | 0.050 |
| XVI | 170 | 4,4'-isopropylidenediphenol (bisphenol A) | 80-05-7 | 0.050 |
| XVI | 171 | 4-Heptylphenol, branched and linear | - | 0.050 |
| XVI | 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 3108-42-7,335-76-2,3 830-45-3 | 0.050 |
| XVI | 173 | p-(1,1-dimethylpropyl)phenol | 80-46-6 | 0.050 |
| XVII | 174 | Perfluorohexane-1-sulphonic acid and its salts | - | 0.050 |
| XVIII | 175 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof] | - | 0.050 |
| XVIII | 176 | Benz[a]anthracene | 56-55-3,1718-53-2 | 0.050 |
| XVIII | 177 | Cadmium nitrate* | 10022-68-1,10325-94-7 | 0.005 |
| XVIII | 178 | Cadmium carbonate* | 513-78-0 | 0.005 |
| XVIII | 179 | Cadmium hydroxide* | 21041-95-2 | 0.005 |
| XVIII | 180 | Chrysene | 218-01-9,1719-03-5 | 0.050 |

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Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|--|------------|--------|
| XVIII | 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] | - | 0.050 |
| XIX | 182 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) | 552-30-7 | 0.050 |
| XIX | 183 | Benzo[ghi]perylene | 191-24-2 | 0.050 |
| XIX | 184 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | 0.050 |
| XIX | 185 | Dicyclohexyl phthalate (DCHP) | 84-61-7 | 0.050 |
| XIX | 186 | Disodium octaborate* | 12008-41-2 | 0.005 |
| XIX | 187 | Dodecamethylcyclohexasiloxane (D6) | 540-97-6 | 0.050 |
| XIX | 188 | Ethylenediamine | 107-15-3 | 0.050 |
| XIX | 189 | Lead (Pb) | 7439-92-1 | 0.005 |
| XIX | 190 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | 0.050 |
| XIX | 191 | Terphenylhydrogenate | 61788-32-7 | 0.050 |

***** To be continued*****



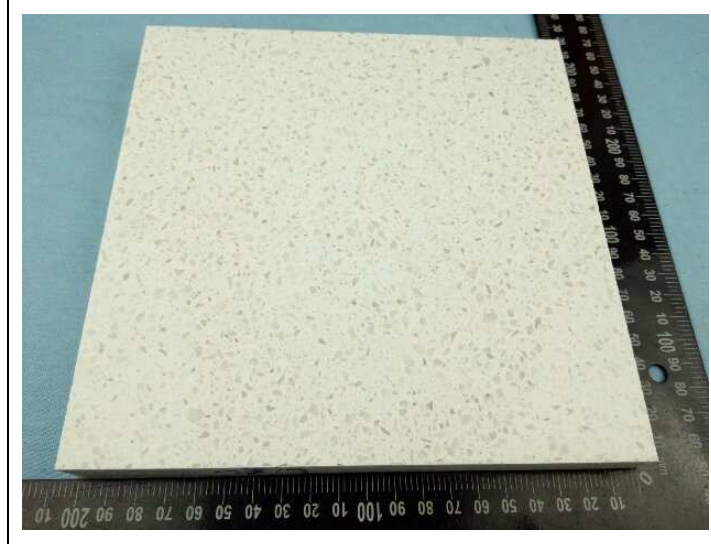
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