

**Test Report  
(SVHC)**

No. SHAEC1604354403

Date: 21 Mar 2016

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ACULON INC

11839 SORRENTO VALLEY RD,SUITE 901 SAN DIEGO CA 92121 UNITED STATES

The following sample(s) was/were submitted and identified on behalf of the clients as : Aculon Nanoproof 3.5

SGS Job No. : SP16-007819 - SH

Date of Sample Received : 14 Mar 2016

Testing Period : 14 Mar 2016 - 21 Mar 2016

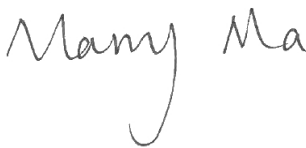
Test Requested : As requested by client, SVHC screening is performed according to:  
(i) One hundred and sixty eight (168) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 17, 2015 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

Summary :

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

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



Marry Ma  
Approved Signatory



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### 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) Concerning article(s):

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).

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.

SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:

[http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS\\_SVHC-paper-EN-11.pdf](http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf)

(3) 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.

(4) 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 No 790/2009, client is suggested to prepare a Safety 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 dangerous according Dangerous Preparations Directive



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1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or

- a mixture is not classified as dangerous under Directive 1999/45/EC, 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.

- (5) 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          | SHA16-043544.002 | Transparent liquid |

**Test Method :**

SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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

| Batch | Substance Name                    | CAS No. | 002<br>Concentration (%) | RL (%) |
|-------|-----------------------------------|---------|--------------------------|--------|
| -     | All tested SVHC in candidate list | -       | ND                       | -      |

**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) <sup>△</sup>CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8  
<sup>☆</sup>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.
- (4) \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: [www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)  
Calculated concentration of boric compounds are based on the total boron by ICP-OES.  
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025 % (only for Lead bis (tetrafluoroborate)).
- (5) § 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)  $\geq 0.1\%$  (w/w).
- (6) Result shown is of the total weight of wet sample.



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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 ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) <sup>△</sup> | 25637-99-4,<br>3194- 55-6 | 0.050  |
| I     | 13  | Lead hydrogen arsenate*   | 7784-40-9                 | 0.005  |
| I     | 14  | Sodium dichromate*  | 7789-12-0,<br>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  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                                | RL (%) |
|-------|-----|---|--|--------|
| 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  |
| II    | 24  | Lead chromate*  | 7758-97-6                              | 0.005  |
| II    | 25  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*                      | 12656-85-8                             | 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*  | 7789-09-5                              | 0.005  |
| III   | 30  | Boric acid*   | 10043-35-3,<br>11113-50-1              | 0.005  |
| III   | 31  | Disodium tetraborate, anhydrous*  | 1303-96-4,<br>1330-43-4,<br>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*  | 7775-11-3                              | 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,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | 7738-94-5<br>-<br>13530-68-2           | 0.005  |



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## Appendix

### Full list of tested SVHC:

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|-------|-----|---|--------------------------|--------|
| 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,<br>302-01-2   | 0.050  |
| V     | 51  | Strontium chromate*   | 7789-06-2                | 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  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.                  | RL (%) |
|-------|-----|--|--------------------------|--------|
| 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.) | 0.005  |
| 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  |



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# Test Report (SVHC)

No. SHAEC1604354403

Date: 21 Mar 2016

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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| 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  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) § | 6786-83-0   | 0.050  |
| VII   | 84  | $\beta$ -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  |
| 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   | 60-09-3     | 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  |



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# Test Report (SVHC)

No. SHAEC1604354403

Date: 21 Mar 2016

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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.                               | RL (%) |
|-------|-----|--|---------------------------------------|--------|
| 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,<br>cis-cyclohexane-1,2-dicarboxylic anhydride,<br>trans-cyclohexane-1,2-dicarboxylic anhydride                       | 85-42-7,<br>13149-00-3,<br>14166-21-3 | 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  |
| VIII  | 109 | Furan  | 110-00-9                              | 0.050  |
| VIII  | 110 | Henicosfluoroundecanoic acid   | 2058-94-8                             | 0.050  |
| VIII  | 111 | Heptacosfluorotetradecanoic acid   | 376-06-7                              | 0.050  |
| VIII  | 112 | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>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  |



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# Test Report (SVHC)

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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| 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 | Pentacosafuorotridecanoic 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  |
| 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  |



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# Test Report (SVHC)

No. SHAEC1604354403

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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.    | RL (%) |
|-------|-----|--|------------|--------|
| 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'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-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  |
| 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*   | 7632-04-4  | 0.005  |
| XII   | 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1 | 0.050  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                        | RL (%) |
|-------|-----|---|--------------------------------|--------|
| XII   | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                      | 0.050  |
| XII   | 158 | 2-ethylhexyl<br>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<br>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;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ 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],<br>5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]<br>[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  |
| 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-ic-acid and its sodium and ammonium salts  | 375-95-1,21049-39-8, 4149-60-4 | 0.050  |



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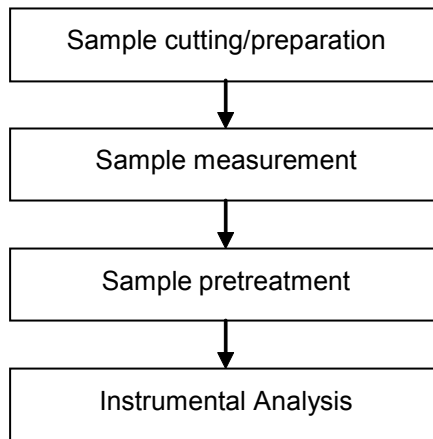
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**ATTACHMENTS**

**SVHC Testing Flow Chart**

- 1) Name of the person who made testing: Lincal Li/Micah Yang
- 2) Name of the person in charge of testing: Chaven Lian



Sample photo:



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