

**XPEL Inc**  
**618 W Sunset Rd**  
**San Antonio, TX 78216**  
**United States**

“This report supersedes all previous documents bearing the test report number 4540845-CH02.”

The following sample(s) was/were submitted and identified by/on behalf of the client as:

**Ultimate Plus, Stealth, Tracwrap, Lux Plus,**  
**Ares, Protex, MPD, RX, Ultimate Plus 7,**  
**Ultimate Plus 10**

Sample Received Date: **10/18/2019**

Testing Period: **10/23/2019 – 11/11/2019**

Revision Summary: Sample Description updated.

**Test Requested:** Two hundred and one (201) substances in the Candidate List of Substances of Very authorization published by European Chemicals Agency (ECHA) on and before 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 North America, Inc.

Prepared By:




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 Laboratory Manager, Chemistry Laboratory

Crystal Melecio  
 Report Writer, Chemistry Laboratory

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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> (Candidate list)

These lists are under evaluation by ECHA and may subject to change in the future.
2. Test results in this report are based on the tested sample(s).
3. 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).
4. 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.
5. If a SVHC is found over 0.1% (w/w), 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.

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**Test Sample:**

Sample Description:

| Sample No. | Material Type | Description |
|------------|---------------|-------------|
| 1          | OM            | TPU Films   |

Material group references:

- OM : Organic matter (natural and synthetic fabric, wood, paper and leather)
- P : Polymer and Elastomer (PVC, PET, ABS, etc.)
- M : Metals (alloy, stainless steel, aluminum, brass)
- G/C : Glass and Ceramic
- S/M : Substance or Mixture (desiccant, ink, chemical etc.)
- PCB : Printed circuit board
- B : Battery

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**Test Method:**

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

**Test Result (per sample): Sample 1**

| No. | Substance Name  | CAS No./<br>EC No. | RL (%) | Concentration (%) |
|-----|-----------------|--------------------|--------|-------------------|
| -   | All tested SVHC | -                  | -      | 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.  
 NA<sup>^</sup> = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.
- (3) <sup>^</sup> CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8  
 ☆ 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) (For all SVHC testing)  
 \* 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 for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.  
  
 RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
- (5) (For 4 pigment substances in the latest 13 SVHC in candidate list)  
 § 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).

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## (6) (For all mixed testing)

Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.

## (7) (For substance and preparation exported to Europe directly)

◇ SCL = Specific Concentration Limit. All SCL are set out in Regulation (EC) No 1272/2008 and Commission Regulation (EC) No 790/2009. Specific concentration limits and generic concentration limits are limits assigned to a substance indicating a threshold at or above which the presence of that substance in another substance or in a mixture as an identified impurity, additive or individual constituent leads to the classification of the substance or mixture as hazardous.

The SVHCs with lowest SCL values <0.1% include: Cobalt dichloride (SCL 0.01%), Cobalt(II) carbonate (SCL 0.01%), Cobalt(II) diacetate (SCL 0.01%), Cobalt(II) dinitrate (SCL 0.01%), Cobalt(II) sulphate (SCL 0.01%), 4-(1,1,3,3-tetramethylbutyl)phenol (SCL 0.025%), Cadmium chloride (SCL 0.01%).

+ Client has the obligation to comply with the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006, unless the use has been exempted from Authorization. Article 56(6) of Regulation (EC) No. 1907/2006 specified the concentration limit requirement of Authorization of SVHC in mixture.

The ECHA SVHC authorization list (Feb 18, 2011) is available at

[http://echa.europa.eu/reach/authorisation\\_under\\_reach/authorisation\\_list\\_en.asp](http://echa.europa.eu/reach/authorisation_under_reach/authorisation_list_en.asp)

These lists are under evaluation by ECHA and may subject to change in the future

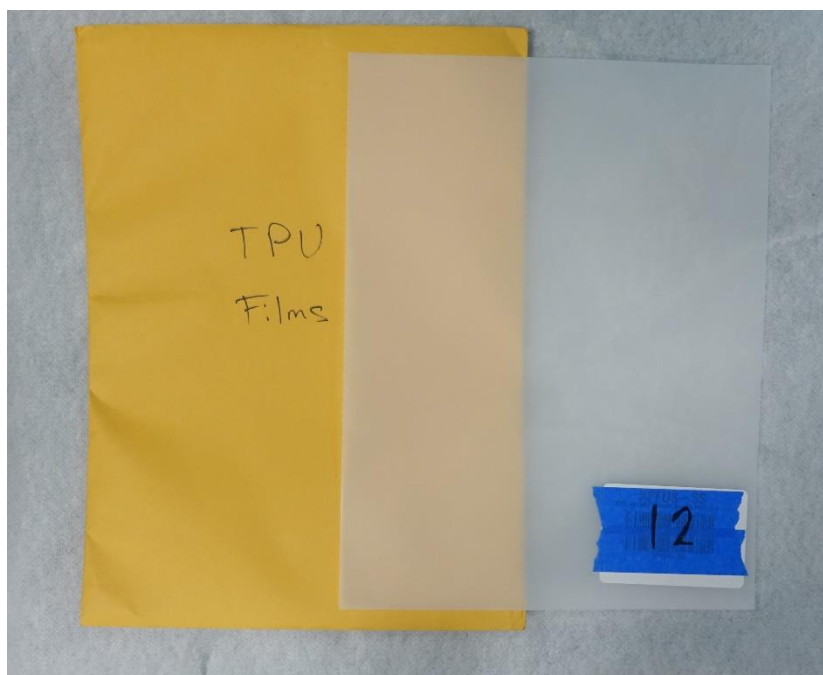
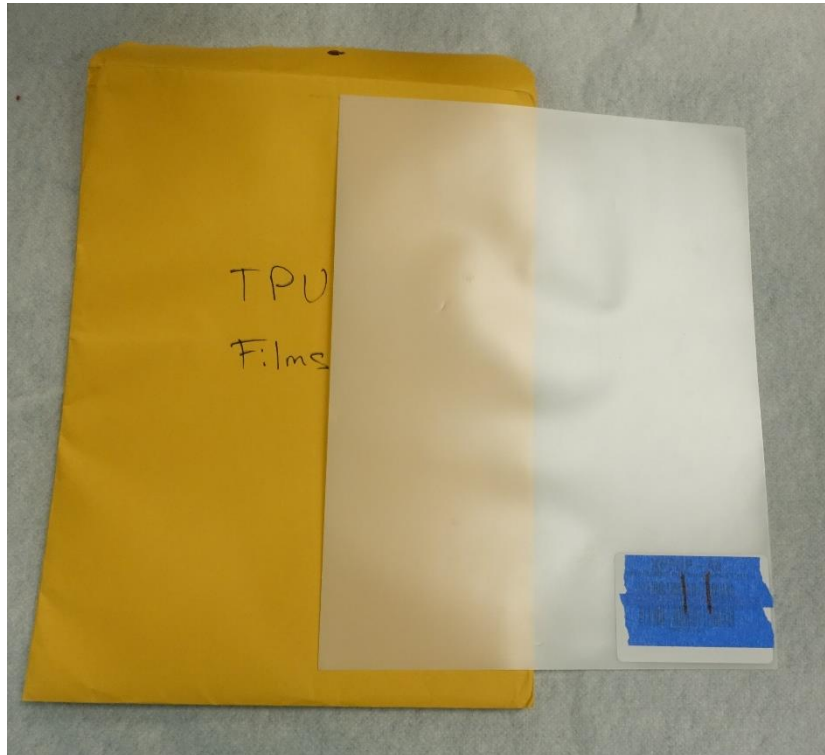
## (8) (for consultation list)

/ = Substances in the Consultation List of SVHC

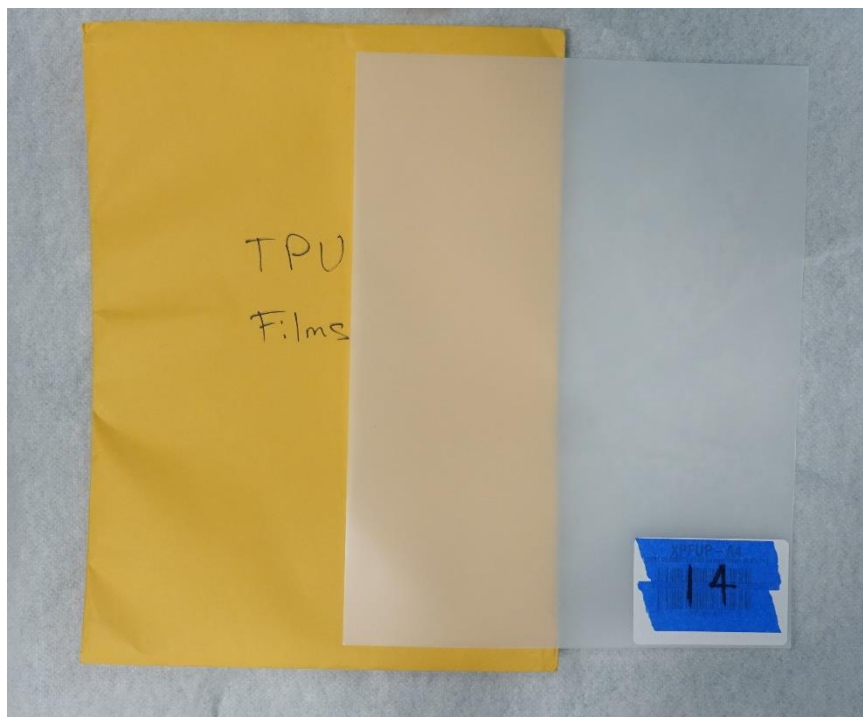
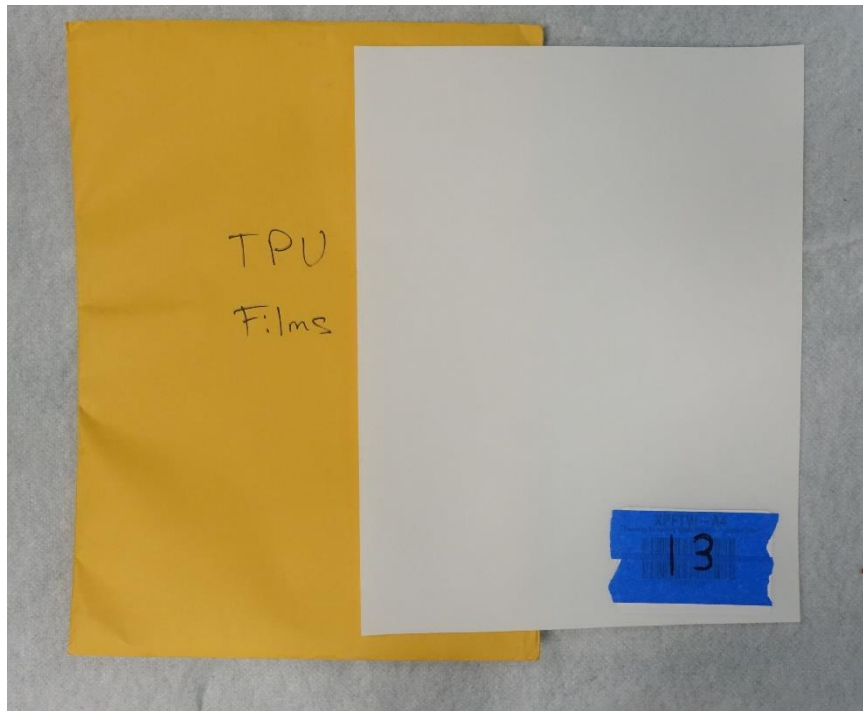
## (9) In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.

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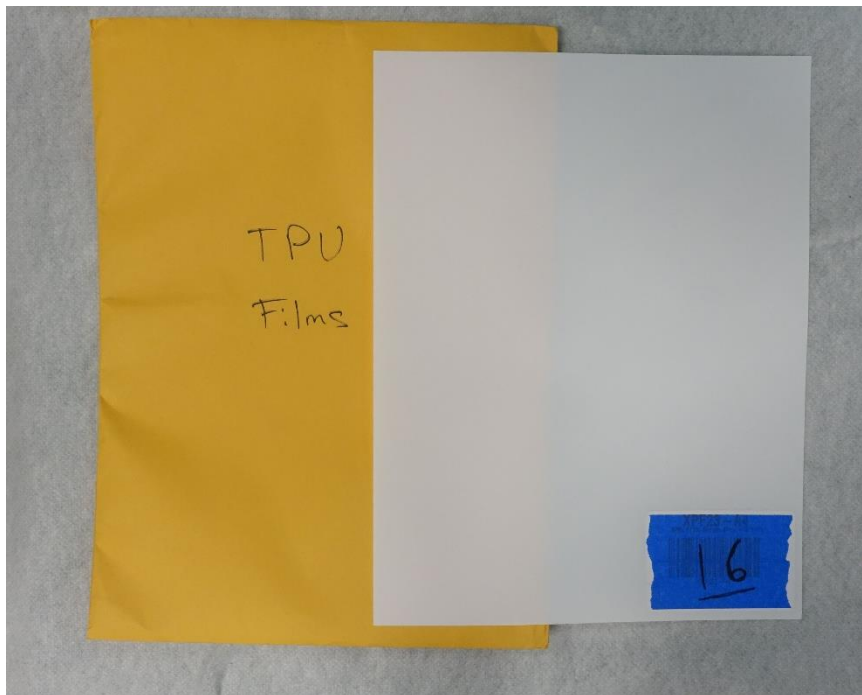
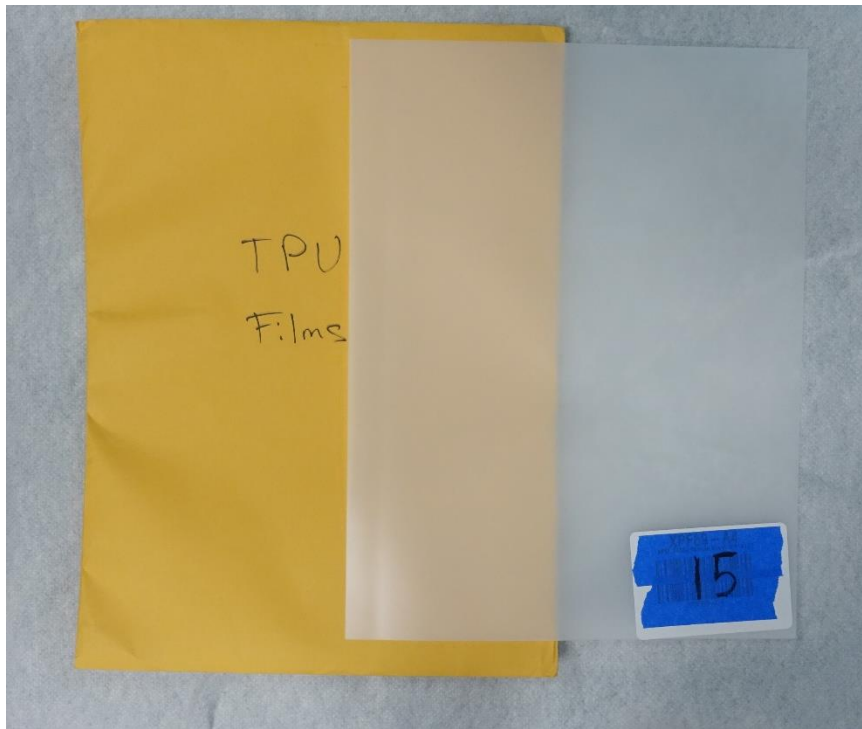
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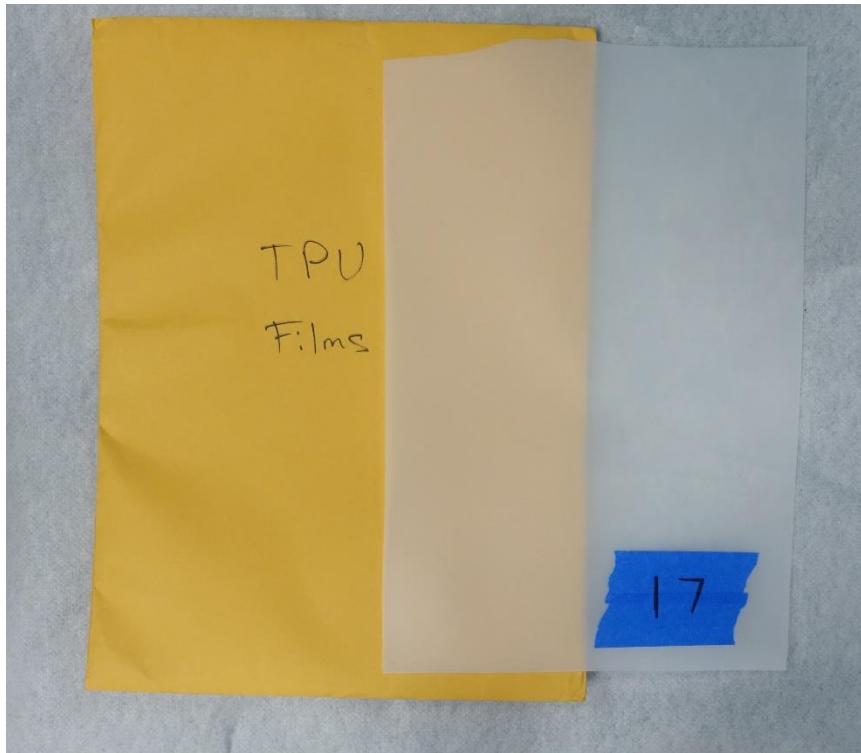


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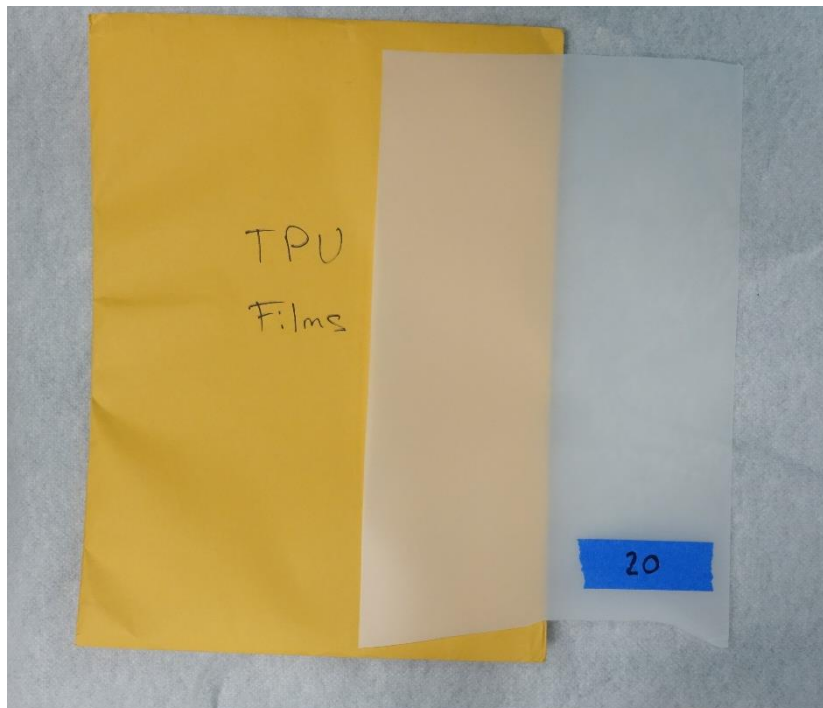
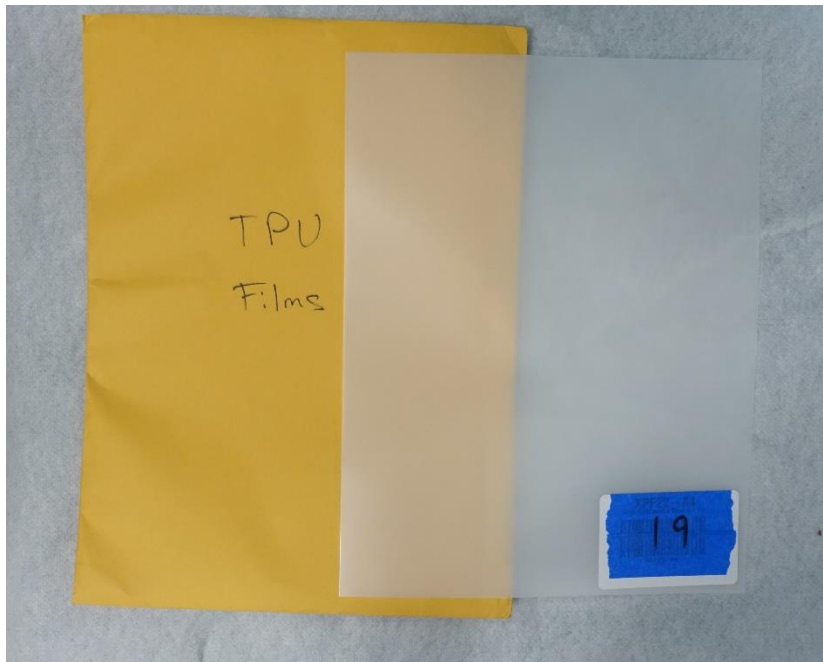


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**Appendix**

| No.  | Substance Name  | CAS No./<br>EC No.       | RL (%) | No. | Substance Name   | CAS No./<br>EC No.   | RL (%) |
|--|---|--------------------------|--------|-----|--|--|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008 |   |                          |        |     |  |  |        |
| 1  | 4,4'-Diaminodiphenylmethane (MDA)                           | 101-77-9/<br>202-974-4   | 0.050  | 2   | 5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)  | 81-15-2/<br>201-329-4  | 0.050  |
| 3  | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8/<br>287-476-5 | 0.050  | 4   | Anthracene   | 120-12-7/<br>204-371-1   | 0.050  |
| 5  | Benzyl butyl phthalate (BBP)                                | 85-68-7/<br>201-622-7    | 0.050  | 6   | Bis(2-ethylhexyl)phthalate (DEHP)  | 117-81-7/<br>204-211-0   | 0.050  |
| 7  | Bis(tributyltin)oxide (TBTO)                                | 56-35-9/<br>200-268-0    | 0.050  | 8   | Cobalt dichloride*   | 7646-79-9/<br>231-589-4  | 0.005  |
| 9  | Diarsenic pentaoxide*                                       | 1303-28-2/<br>215-116-9  | 0.005  | 10  | Diarsenic trioxide*  | 1327-53-3/<br>215-481-4  | 0.005  |
| 11   | Dibutyl phthalate (DBP)                                     | 84-74-2/<br>201-557-4    | 0.050  | 12  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4/<br>247-148-4;<br>3194-55-6/<br>221-695-9;<br>(134237-50-6/-;<br>134237-51-7/-;<br>134237-52-8/-) | 0.050  |
| 13   | Lead hydrogen arsenate*                                     | 7784-40-9/<br>232-064-2  | 0.005  | 14  | Sodium dichromate*   | 7789-12-0/<br>10588-01-9/<br>234-190-3   | 0.005  |
| 15   | Triethyl arsenate*  | 15606-95-8/<br>427-700-2 | 0.005  |     |  |  |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010 |   |                          |        |     |  |  |        |
| 16   | 2,4-Dinitrotoluene  | 121-14-2/<br>204-450-0   | 0.050  | 17  | Anthracene oil*  | 90640-80-5/<br>292-602-7   | 0.050  |
| 18   | Anthracene oil, anthracene paste*                           | 90640-81-6/<br>292-603-2 | 0.050  | 19  | Anthracene oil, anthracene paste, anthracene fraction*   | 91995-15-2/<br>295-275-9   | 0.050  |
| 20   | Anthracene oil, anthracene paste; distn. Lights*            | 91995-17-4/<br>295-278-5 | 0.050  | 21  | Anthracene oil, anthracene-low*  | 90640-82-7/<br>292-604-8   | 0.050  |
| 22   | Diisobutyl phthalate  | 84-69-5/<br>201-553-2    | 0.050  | 23  | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*  | 12656-85-8/<br>235-759-9   | 0.005  |
| 24   | Lead chromate*  | 7758-97-6/<br>231-846-0  | 0.005  | 25  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*  | 1344-37-2/<br>215-693-7  | 0.005  |
| 26   | Pitch, coal tar, high temp.*                                | 65996-93-2/<br>266-028-2 | 0.050  | 27  | Tris(2-chloroethyl)phosphate   | 115-96-8/<br>204-118-5   | 0.050  |

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| No.  | Substance Name  | CAS No./<br>EC No.                                   | RL (%) | No. | Substance Name   | CAS No./<br>EC No.                                    | RL (%) |
|--|---|--|--------|-----|--|---|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010 |   |  |        |     |  |   |        |
| 28   | Acrylamide  | 79-06-1/<br>201-173-7                                | 0.050  |     |  |   |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010 |   |  |        |     |  |   |        |
| 29   | Ammonium dichromate*  | 7789-09-5/<br>232-143-1                              | 0.005  | 30  | Boric acid*  | 10043-35-3/<br>233-139-2;<br>11113-50-1/<br>234-343-4 | 0.005  |
| 31   | Disodium tetraborate,<br>anhydrous*   | 1303-96-4<br>1330-43-4<br>12179-04-3/<br>215-540-4   | 0.005  | 32  | Potassium chromate*  | 7789-00-6/<br>232-140-5                               | 0.005  |
| 33   | Potassium dichromate*   | 7778-50-9/<br>231-906-6                              | 0.005  | 34  | Sodium chromate*   | 7775-11-3/<br>231-889-5                               | 0.005  |
| 35   | Tetraboron disodium<br>heptaoxide, hydrate*   | 12267-73-1/<br>235-541-3                             | 0.005  | 36  | Trichloroethylene  | 79-01-6/<br>201-167-4                                 | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010 |   |  |        |     |  |   |        |
| 37   | 2-Ethoxyethanol   | 110-80-5/<br>203-804-1                               | 0.050  | 38  | 2-Methoxyethanol   | 109-86-4/<br>203-713-7                                | 0.050  |
| 39   | Acids generated from<br>chromium trioxide and their<br>oligomers:<br>Chromic acid<br>Dichromic acid<br>Oligomers of chromic acid and<br>dichromic acid* | 7738-94-5/<br>231-801-5;<br>13530-68-2/<br>236-881-5 | 0.005  | 40  | Chromium trioxide*   | 1333-82-0/<br>215-607-8                               | 0.005  |
| 41   | Cobalt(II) carbonate*   | 513-79-1/<br>208-169-4                               | 0.005  | 42  | Cobalt(II) diacetate*  | 71-48-7/<br>200-755-8                                 | 0.005  |
| 43   | Cobalt(II) dinitrate*   | 10141-05-6/<br>233-402-1                             | 0.005  | 44  | Cobalt(II) sulphate*   | 10124-43-3/<br>233-334-2                              | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011 |   |  |        |     |  |   |        |
| 45   | 1,2,3-Trichloropropane  | 96-18-4/<br>202-486-1                                | 0.050  | 46  | 1,2-Benzenedicarboxylic acid,<br>di-C6-8-branched alkyl esters,<br>C7-rich | 71888-89-6/<br>276-158-1                              | 0.050  |
| 47   | 1,2-Benzenedicarboxylic acid,<br>di-C7-11-branched and linear<br>alkyl esters   | 68515-42-4/<br>271-084-6                             | 0.050  | 48  | 1-Methyl-2-pyrrolidone   | 872-50-4/<br>212-828-1                                | 0.050  |
| 49   | 2-Ethoxyethyl acetate   | 111-15-9/<br>203-839-2                               | 0.050  | 50  | Hydrazine  | 7803-57-8<br>302-01-2/<br>206-114-9                   | 0.050  |
| 51   | Strontium chromate*   | 7789-06-2/<br>232-142-6                              | 0.005  |     |  |   |        |

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| No.  | Substance Name  | CAS No./<br>EC No.          | RL (%) | No. | Substance Name   | CAS No./<br>EC No.          | RL (%) |
|--|---|-----------------------------|--------|-----|--|-----------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011 |   |                             |        |     |  |                             |        |
| 52   | 1,2-Dichloroethane  | 107-06-2/<br>203-458-1      | 0.050  | 53  | 2,2'-dichloro-4,4'-<br>methylenedianiline (MOCA)       | 101-14-4/<br>202-918-9      | 0.050  |
| 54   | 2-Methoxyaniline  | 90-04-0/<br>201-963-1       | 0.050  | 55  | 4-tert-Octylphenol                                     | 140-66-9/<br>205-426-2      | 0.050  |
| 56   | Aluminosilicate Refractory<br>Ceramic Fibres*                                 | 650-017-00-8<br>(Index no.) | 0.005  | 57  | Arsenic acid*  | 7778-39-4/<br>231-901-9     | 0.005  |
| 58   | Bis(2-methoxyethyl) ether   | 111-96-6/<br>203-924-4      | 0.050  | 59  | Bis(2-methoxyethyl) phthalate                          | 117-82-8/<br>204-212-6      | 0.050  |
| 60   | Calcium arsenate*   | 7778-44-1/<br>231-904-5     | 0.005  | 61  | Dichromium tris(chromate)*                             | 24613-89-6/<br>246-356-2    | 0.005  |
| 62   | Formaldehyde, oligomeric<br>reaction products with aniline<br>(technical MDA) | 25214-70-4/<br>500-036-1    | 0.050  | 63  | Lead diazide*  | 13424-46-9/<br>236-542-1    | 0.005  |
| 64   | Lead dipicrate*   | 6477-64-1/<br>229-335-2     | 0.005  | 65  | Lead styphnate*  | 15245-44-0/<br>239-290-0    | 0.005  |
| 66   | N,N-dimethylacetamide<br>(DMAC)   | 127-19-5/<br>204-826-4      | 0.050  | 67  | Pentazinc chromate<br>octahydroxide*                   | 49663-84-5/<br>256-418-0    | 0.005  |
| 68   | Phenolphthalein   | 77-09-8/<br>201-004-7       | 0.050  | 69  | Potassium<br>hydroxyoctaoxidizincatedichro<br>mate*    | 11103-86-9/<br>234-329-8    | 0.005  |
| 70   | Trilead diarsenate*   | 3687-31-8/<br>222-979-5     | 0.005  | 71  | Zirconia Aluminosilicate<br>Refractory Ceramic Fibres* | 650-017-00-8<br>(Index no.) | 0.005  |

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| No.  | Substance Name   | CAS No./<br>EC No.       | RL (%) | No. | Substance Name   | CAS No./<br>EC No.      | RL (%) |
|--|--|--------------------------|--------|-----|--|-------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012 |  |                          |        |     |  |                         |        |
| 72   | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methyle ne]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5/<br>219-943-6  | 0.050  | 73  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) | 548-62-9/<br>208-953-6  | 0.050  |
| 74   | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)   | 112-49-2/<br>203-977-3   | 0.050  | 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4/<br>203-794-9  | 0.050  |
| 76   | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)  | 90-94-8/<br>202-027-5    | 0.050  | 77  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1/<br>209-218-2  | 0.050  |
| 78   | Diboron trioxide*  | 1303-86-2/<br>215-125-8  | 0.005  | 79  | Formamide  | 75-12-7/<br>200-842-0   | 0.050  |
| 80   | Lead(II) bis(methanesulfonate)*  | 17570-76-2/<br>401-750-5 | 0.005  | 81  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1/<br>202-959-2  | 0.050  |
| 82   | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9/<br>219-514-3  | 0.050  | 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                 | 6786-83-0/<br>229-851-8 | 0.050  |
| 84   | $\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-   | 59653-74-6/<br>423-400-0 | 0.050  |     |  |                         |        |

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| No.  | Substance Name   | CAS No./<br>EC No.  | RL (%) | No. | Substance Name   | CAS No./<br>EC No.  | RL (%) |
|--|--|---|--------|-----|--|---|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012 |  |   |        |     |  |   |        |
| 85   | [Phthalato(2-)]dioxotrilead*   | 69011-06-9 /<br>273-688-5   | 0.005  | 86  | 1,2-Benzenedicarboxylic acid,<br>dipentylester, branched and<br>linear   | 84777-06-0/<br>284-032-2  | 0.050  |
| 87   | 1,2-Diethoxyethane   | 629-14-1 /<br>211-076-1   | 0.050  | 88  | 1-Bromopropane   | 106-94-5/<br>203-445-0  | 0.050  |
| 89   | 3-Ethyl-2-methyl-2-(3-<br>methylbutyl)-1,3-oxazolidine   | 143860-04-2 /<br>421-150-7  | 0.050  | 90  | 4-(1,1,3,3-<br>tetramethylbutyl)phenol,<br>ethoxylated   | -   | 0.050  |
| 91   | 4,4'-Methylenedi-o-toluidine   | 838-88-0/<br>212-658-8  | 0.050  | 92  | 4,4'-Oxydianiline  | 101-80-4/<br>202-977-0  | 0.050  |
| 93   | 4-Aminoazobenzene  | 60-09-3/<br>200-453-6   | 0.050  | 94  | 4-Methyl- <i>m</i> -phenylenediamine   | 95-80-7/<br>202-453-1   | 0.050  |
| 95   | 4-Nonylphenol, branched and<br>linear  | -   | 0.050  | 96  | 6-Methoxy- <i>m</i> -toluidine   | 120-71-8/<br>204-419-1  | 0.050  |
| 97   | Acetic acid, lead salt, basic*   | 51404-69-4 /<br>257-175-3   | 0.005  | 98  | Biphenyl-4-ylamine   | 92-67-1/<br>202-177-1   | 0.050  |
| 99   | Bis(pentabromophenyl) ether<br>(DecaBDE)   | 1163-19-5 /<br>214-604-9  | 0.050  | 100 | C,C'-azodi(formamide)<br>(ADCA)  | 123-77-3/<br>204-650-8  | 0.050  |
| 101  | Dibutyltin dichloride (DBT)  | 683-18-1 /<br>211-670-0   | 0.050  | 102 | Diethyl sulphate   | 64-67-5/<br>200-589-6   | 0.050  |
| 103  | Diisopentylphthalate (DIPP)  | 605-50-5 /<br>210-088-4   | 0.050  | 104 | Dimethyl sulphate  | 77-78-1/<br>201-058-1   | 0.050  |
| 105  | Dinoseb  | 88-85-7 /<br>201-861-7  | 0.050  | 106 | Dioxobis(stearato)trilead*   | 12578-12-0/<br>235-702-8  | 0.005  |
| 107  | Fatty acids, C16-18, lead salts*   | 91031-62-8 /<br>292-966-7   | 0.005  | 108 | Furan  | 110-00-9/<br>203-727-3  | 0.050  |
| 109  | Henicosafuoroundecanoic acid   | 2058-94-8/<br>218-165-4   | 0.050  | 110 | Heptacosafuorotetradecanoic<br>acid  | 376-06-7/<br>206-803-4  | 0.050  |
| 111  | Hexahydro-2-benzofuran-1,3-<br>dione,<br>cis-cyclohexane-1,2-<br>dicarboxylic anhydride,<br>trans-cyclohexane-1,2-<br>dicarboxylic anhydride | 85-42-7/<br>201-604-9;<br>13149-00-3 /<br>236-086-3;<br>14166-21-3 /<br>238-009-9 | 0.050  | 112 | Hexahydromethylphthalic<br>anhydride,<br>Hexahydro-4-methylphthalic<br>anhydride,<br>Hexahydro-1-methylphthalic<br>anhydride,<br>Hexahydro-3-methylphthalic<br>anhydride | 25550-51-0/<br>247-094-1;<br>19438-60-9/<br>243-072-0;<br>48122-14-1/<br>256-356-4;<br>57110-29-9/<br>260-566-1 | 0.050  |
| 113  | Lead bis(tetrafluoroborate)*   | 13814-96-5/<br>237-486-0  | 0.005  | 114 | Lead cyanamidate*  | 20837-86-9/<br>244-073-9  | 0.005  |
| 115  | Lead dinitrate*  | 10099-74-8 /<br>233-245-9   | 0.005  | 116 | Lead monoxide*   | 1317-36-8/<br>215-267-0   | 0.005  |

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| No.  | Substance Name   | CAS No./<br>EC No.        | RL (%) | No. | Substance Name  | CAS No./<br>EC No.       | RL (%) |
|--|--|---------------------------|--------|-----|---|--------------------------|--------|
| 117  | Lead oxide sulphate*   | 12036-76-9 /<br>234-853-7 | 0.005  | 118 | Lead tetroxide*   | 1314-41-6/<br>215-235-6  | 0.005  |
| 119  | Lead titanium trioxide*  | 12060-00-3 /<br>235-038-9 | 0.005  | 120 | Lead titanium zirconium oxide*  | 12626-81-2/<br>235-727-4 | 0.005  |
| 121  | Methoxyacetic acid   | 625-45-6 /<br>210-894-6   | 0.050  | 122 | N,N-Dimethylformamide   | 68-12-2/<br>200-679-5    | 0.050  |
| 123  | N-Methylacetamide  | 79-16-3 /<br>201-182-6    | 0.050  | 124 | N-Pentyl-isopentylphthalate   | 776297-69-9<br>/-        | 0.050  |
| 125  | o-Aminoazotoluene  | 97-56-3 /<br>202-591-2    | 0.050  | 126 | o-Toluidine   | 95-53-4/<br>202-429-0    | 0.050  |
| 127  | Pentacosafuorotridecanoic acid   | 72629-94-8 /<br>276-745-2 | 0.050  | 128 | Pentalead tetraoxide sulphate*  | 12065-90-6/<br>235-067-7 | 0.005  |
| 129  | Propylene oxide  | 75-56-9 /<br>200-879-2    | 0.050  | 130 | Pyrochlore, antimony lead yellow*   | 8012-00-8/<br>232-382-1  | 0.005  |
| 131  | Silicic acid, barium salt, lead-doped*   | 68784-75-8 /<br>272-271-5 | 0.005  | 132 | Silicic acid, lead salt*  | 11120-22-2/<br>234-363-3 | 0.005  |
| 133  | Sulfurous acid, lead salt, dibasic*  | 62229-08-7/<br>263-467-1  | 0.005  | 134 | Tetraethyllead*   | 78-00-2/<br>201-075-4    | 0.005  |
| 135  | Tetralead trioxide sulphate*   | 12202-17-4 /<br>235-380-9 | 0.005  | 136 | Tricosafuorododecanoic acid   | 307-55-1/<br>206-203-2   | 0.050  |
| 137  | Trilead bis(carbonate)dihydroxide*   | 1319-46-6 /<br>215-290-6  | 0.005  | 138 | Trilead dioxide phosphonate*  | 12141-20-7/<br>235-252-2 | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013 |  |                           |        |     |   |                          |        |
| 139  | 4-Nonylphenol, branched and linear, ethoxylated  | -                         | 0.050  | 140 | Ammoniumpentadecafluoro octanoate (APFO)  | 3825-26-1/<br>223-320-4  | 0.050  |
| 141  | Cadmium  | 7440-43-9 /<br>231-152-8  | 0.005  | 142 | Cadmium oxide*  | 1306-19-0/<br>215-146-2  | 0.005  |
| 143  | Di-n-pentyl phthalate  | 131-18-0 /<br>205-017-9   | 0.050  | 144 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1/<br>206-397-9   | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013 |  |                           |        |     |   |                          |        |
| 145  | Cadmium sulphide*  | 1306-23-6 /<br>215-147-8  | 0.005  | 146 | Dihexyl phthalate   | 84-75-3/<br>201-559-5    | 0.050  |
| 147  | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 /<br>209-358-4   | 0.050  | 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/<br>217-710-3  | 0.050  |
| 149  | Imidazolidine-2-thione; 2-imidazoline-2-thiol  | 96-45-7/<br>202-506-9     | 0.050  | 150 | Lead di(acetate)*   | 301-04-2/<br>206-104-4   | 0.005  |
| 151  | Trixylyl phosphate   | 25155-23-1/<br>246-677-8  | 0.050  |     |   |                          |        |

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| No.  | Substance Name  | CAS No./<br>EC No.                                    | RL (%) | No. | Substance Name   | CAS No./<br>EC No.                       | RL (%) |
|--|---|---|--------|-----|--|--|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014 |   |   |        |     |  |  |        |
| 152  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4/<br>271-093-5                              | 0.050  | 153 | Cadmium chloride*  | 10108-64-2/<br>233-296-7                 | 0.005  |
| 154  | Sodium perborate; perboric acid, sodium salt*   | - / 234-390-0;<br>239-172-9                           | 0.005  | 155 | Sodium peroxometaborate*   | 7632-04-4/<br>231-556-4                  | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014 |   |   |        |     |  |  |        |
| 156  | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7 /<br>223-346-6                              | 0.050  | 157 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1 /<br>247-384-8                | 0.050  |
| 158  | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE   | 15571-58-1 /<br>239-622-4                             | 0.050  | 159 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 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 and MOTE) | /  | 0.050  |
| 160  | Cadmium fluoride*   | 7790-79-6 /<br>232-222-0                              | 0.005  | 161 | Cadmium sulphate*  | 10124-36-4;<br>31119-53-6 /<br>233-331-6 | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun15, 2015  |   |   |        |     |  |  |        |
| 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 (EC No. 201-559-5) | 68515-51-5;<br>68648-93-1/<br>271-094-0;<br>272-013-1 | 0.050  | 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  |

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| No.  | Substance Name  | CAS No./<br>EC No.  | RL (%) | No. | Substance Name   | CAS No./<br>EC No.       | RL (%) |
|--|---|---|--------|-----|--|--------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015 |   |   |        |     |  |                          |        |
| 164  | 1,3-propanesultone  | 1120-71-4 /<br>214-317-9  | 0.050  | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 /<br>223-383-8 | 0.050  |
| 166  | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3 /<br>253-037-1   | 0.050  | 167 | Nitrobenzene   | 98-95-3 /<br>202-716-0   | 0.050  |
| 168  | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorodecafluorodecanoic acid and its sodium and ammonium salts | 375-95-1;<br>21049-39-8;<br>4149-60-4<br>/ 206-801-3                | 0.050  |     |  |                          |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016 |   |   |        |     |  |                          |        |
| 169  | Benzo[def]chrysene (Benzo[a]pyrene)   | 50-32-8 /<br>200-028-5  | 0.050  |     |  |                          |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017 |   |   |        |     |  |                          |        |
| 170  | 4,4'-Isopropylidenediphenol (Bisphenol A)   | 80-05-7 /<br>201-245-8  | 0.050  | 171 | 4-Heptylphenol, branched and linear                            | -                        | 0.050  |
| 172  | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 335-76-2;<br>3830-45-3;<br>3108-42-7/<br>206-400-3; -;<br>221-470-5 | 0.050  | 173 | p-(1,1-dimethylpropyl)phenol                                   | 80-46-6 /<br>201-280-9   | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017  |   |   |        |     |  |                          |        |
| 174  | Perfluorohexane-1-sulphonic acid and its salts  | -   | 0.010  |     |  |                          |        |

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| No.  | Substance Name   | CAS No./<br>EC No.        | RL (%) | No. | Substance Name  | CAS No./<br>EC No.        | RL (%) |
|--|--|---------------------------|--------|-----|---|---------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2018 |  |                           |        |     |   |                           |        |
| 175  | Chrysene   | 218-01-9 /<br>205-923-4   | 0.050  | 176 | Benz[a]anthracene   | 56-55-3 /<br>200-280-6    | 0.050  |
| 177  | Cadmium nitrate  | 10325-94-7 /<br>233-710-6 | 0.050  | 178 | Cadmium hydroxide   | 21041-95-2 /<br>244-168-5 | 0.050  |
| 179  | Cadmium carbonate  | 513-78-0 /<br>208-168-9   | 0.050  | 180 | 1,6,7,8,9,14,15,16,17,17,18,<br>18-Dodecachloropentacyclo[12.<br>2.1.16,9.02,13.05,10]octade<br>ca-7,15-diene ("Dechlorane<br>Plus™") [covering any of its<br>individual anti- and syn-<br>isomers or any combination<br>thereof] | -                         | 0.050  |
| 181  | Reaction products of 1,3,4-<br>thiadiazolidine-2,5-dithione,<br>formaldehyde and 4-<br>heptylphenol, branched and<br>linear (RP-HP) [with 0.1% w/w<br>4-heptylphenol, branched and<br>linear | -                         | 0.050  |     |   |                           |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018 |  |                           |        |     |   |                           |        |
| 182  | Terphenyl, Hydrogenated  | 61788-32-7                | 0.050  | 183 | Octamethylcyclotetrasiloxan<br>e (D4)   | 556-67-2                  | 0.050  |
| 184  | Lead   | 7439-92-1                 | 0.005  | 185 | Ethylenediamine (EDA)   | 107-15-3                  | 0.050  |
| 186  | Dodecamethylcyclohexasilox<br>ane (D6)   | 540-97-6                  | 0.050  | 187 | Disodium Octaborate   | 12008-41-2                | 0.050  |
| 188  | Dicyclohexyle Phtrhalate<br>(DCHP)   | 84-61-7                   | 0.050  | 189 | Decamethylcyclopentasiloxa<br>ne (D5)   | 541-02-6                  | 0.050  |
| 190  | Benzo[ghi]perylene   | 191-24-2                  | 0.050  | 191 | Benzene-1,2,3-Tricarboxylic<br>Acid 1,2 Anhydride (TMA)   | 552-30-7                  | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2019 |  |                           |        |     |   |                           |        |
| 192  | 2,2-bis(4'-hydroxyphenyl)-4-<br>methylpentane  | 6807-17-6                 | 0.050  | 193 | Benzo[k]fluoranthene  | 207-08-9                  | 0.050  |
| 194  | Fluoranthene   | 206-44-0 /<br>93951-69-0  | 0.050  | 195 | Phenathrene   | 85-01-8                   | 0.050  |
| 196  | Pyrene   | 129-00-0 /<br>1718-52-1   | 0.050  | 197 | 1,7,7-trimethyl-3-<br>(phenylmethylene)bicyclo<br>[2.2.1]heptan-2-one   | 15087-24-8                | 0.050  |

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| No.  | Substance Name   | CAS No./<br>EC No. | RL (%) | No. | Substance Name  | CAS No./<br>EC No. | RL (%) |
|--|--|--------------------|--------|-----|---|--------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 16, 2019 |  |                    |        |     |   |                    |        |
| 198  | 2-methoxyethyl acetate   | 110-49-6           | 0.050  | 199 | Tris(4-nonylphenyl, branched and linear) phosphate (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | --                 | 0.050  |
| 200  | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | --                 | 0.050  | 201 | 4-tert-butylphenol  | 98-54-4            | 0.050  |

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## Notes :

- 1 RL = Reporting Limit. All RL are based on homogenous material
- 2 # SCL = Specific Concentration Limit. All SCL are set out in Regulation (EC) No 1272/2008 and its amendments. Specific concentration limits and generic concentration limits are limits assigned to a substance indicating a threshold at or above which the presence of that substance in another substance or in a mixture as an identified impurity, additive or individual constituent leads to the classification of the substance or mixture as hazardous. The SVHCs with SCL values <0.1% are specified in the test result tables.

\* 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:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.01% for organic substances, 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, silicon, sodium, strontium, titanium, zirconium and zinc respectively), except molybdenum RL = 0.0001%.

▼ Regulation (EC) No 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures, and its amendments.

† Client has the obligation to comply with the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006, unless the use has been exempted from Authorization. Article 56(6) of Regulation (EC) No. 1907/2006 specified the concentration limit requirement of Authorization of SVHC in mixture.

The ECHA SVHC authorization list (Jun 13, 2017) is available at

<https://echa.europa.eu/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list/authorisation-list>

This list is under evaluation by ECHA and may subject to change in the future.

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