

SVHC Assessment Report

Number : TWNC00740351

Applicant: Infinity Foils Inc.
9090 Nieman Road Overland Park Kansas USA

Date : Nov 05, 2018

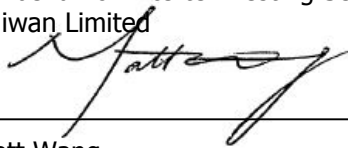
Sample Description:

One (1) group of submitted samples said to be :
Sample Description : Hot Stamping Foil
Style / Item No. : MX, HR, MB, MBD, MSD, MSF
Date Sample Received : Oct 22, 2018
Date Test Started : Oct 23, 2018

Test Conducted :

As requested by the applicant, for details please refer to attached pages.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
Sr. Manager



Signed by:



Thomas Chou
Manager



SVHC Assessment Report

Number : TWNC00740351

Summary:

According to the client's request, screening test was conducted for the **191** Substances of Very High Concern (SVHC) in the Candidate List promulgated by the European Chemicals Agency (ECHA) on June 27, 2018. For the submitted samples, the content of each SVHC was less than 0.1% (w/w).

This assessment report is for reference purposes only. The applicant shall make his/her own judgment as to whether the information provided in assessment report is sufficient for his/her purposes. The screening results shown in this assessment report will be in relation to various factors, including but not limited to the weight or size of dismantled component and composite test approach, etc. If the content of SVHC is out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

The thresholds and SVHCs are defined in Article 7 and 57 of Regulation (EC) No 1907/2006 (REACH Regulation). The information is quoted from the ECHA and can be found via following links:

- <http://echa.europa.eu/regulations/reach/authorisation>
- http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

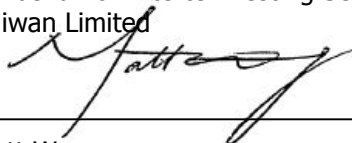
Substances of Very High Concern (SVHC) are classified as:

- a. carcinogenic, mutagenic or toxic to reproduction (CMR) classified in category 1 or 2,
- b. PBT (PBT) or vPvB (vPvB) according to the criteria in Annex XIII of the REACH Regulation, and/or
- c. Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to humans or the environment of an equivalent level of concern as those above e.g. endocrine disrupters

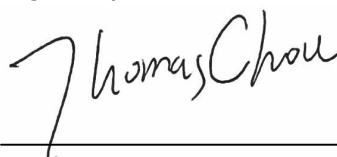
Legal obligations

- a. EU and EEA producers and importers of articles have a legal obligation to submit a notification to ECHA with regard to any substance on the Candidate List in their articles, if both the following conditions are met:
 - the substance is present in their relevant articles above a concentration of 0,1% weight by weight, and
 - the substance is present in their relevant articles in quantities totalling over 1 tonne per year.
- b. EU and EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) have to provide sufficient information to allow safe use of the article to their customers or upon request, to a consumer within 45 days of the receipt of the request. This information must contain as a minimum the name of the substance.

Authorized By:

On behalf of Intertek Testing Services
Taiwan LimitedMatt Wang
Sr. Manager

Signed by:

Thomas Chou
Manager

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Test Conducted :

Test Method:

By Intertek in-house method

1. Acid digestion or aqueous extraction methods were used and the relevant elements were determined by ICP-OES.
2. Further confirmation test was performed by UV-Vis (non-metal part) or spot test (metal part) for Cr⁶⁺.
3. Solvent extraction method was used for semi-volatile and non-volatile organic compounds and the relevant compounds were determined by GC-MS, GC-ECD, HPLC-DAD or LC-MS-MS.

Test Result Summary:

| No. | Substance Name | Result (ppm) |
|-----|--------------------------------------------------------------|-----------------------------|
| | | Golden/coppery plastic film |
| -- | Substances of Very High Concern (SVHC) in the Candidate List | All SVHC were not detected |

Remarks: ppm = Parts per million = mg/kg
Detection limit = 100 ppm (for each compound)



Test Conducted :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|----------------------------------------------------------------------|------------------------|----------------------------------------------------------------------|-----------------------------------------|
| 1 | Cobalt dichloride | 231-589-4 | 7646-79-9 | Carcinogenic Mutagenic |
| 2 | Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | Carcinogenic |
| 3 | Diarsenic trioxide | 215-481-4 | 1327-53-3 | Carcinogenic |
| 4 | Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | Carcinogenic TRC |
| 5 | Triethyl arsenate | 427-700-2 | 15606-95-8 | Carcinogenic |
| 6 | Sodium dichromate, dihydrate | 234-190-3 | 7789-12-0 | Carcinogenic Mutagenic TRC |
| 7 | Bis (tributyltin)oxide (TBTO) | 200-268-0 | 56-35-9 | PBT |
| 8 | Anthracene | 204-371-1 | 120-12-7 | PBT |
| 9 | 4,4'-Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | Carcinogenic |
| 10 | Dibutyl phthalate (DBP) | 201-557-4 | 84-74-2 | TRC, EDP |
| 11 | 5- <i>tert</i> -Butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene) | 201-329-4 | 81-15-2 | vPvB |
| 12 | Bis(2-ethylhexyl) phthalate (DEHP) | 204-211-0 | 117-81-7 | TRC, EDP |
| 13 | Hexabromocyclododecane (HBCDD) | 247-148-4 221-695-9 | 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 | PBT |
| 14 | Benzyl butyl phthalate (BBP) | 201-622-7 | 85-68-7 | TRC, EDP |
| 15 | Short chain chlorinated parafins (C10-13) | 287-476-5 | 85535-84-8 | PBT |
| 16 | Anthracene oil | 292-602-7 | 90640-80-5 | PBT, vPvB |
| 17 | Anthracene oil, anthracene paste, distn. lights | 295-278-5 | 91995-17-4 | PBT, vPvB, Carcinogenic Mutagenic |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | 295-275-9 | 91995-15-2 | PBT, vPvB, Carcinogenic Mutagenic |
| 19 | Anthracene oil, anthracene-low | 292-604-8 | 90640-82-7 | PBT, vPvB, Carcinogenic Mutagenic |
| 20 | Anthracene oil, anthracene paste | 292-603-2 | 90640-81-6 | PBT, vPvB, Carcinogenic Mutagenic |
| 21 | Coal tar pitch, high temp. | 266-028-2 | 65996-93-2 | PBT, vPvB, Carcinogenic |
| 22 | Acrylamide | 201-173-7 | 79-06-1 | Carcinogenic Mutagenic |
| 23 | 2,4-Dinitrotoluene | 204-450-0 | 121-14-2 | Carcinogenic |
| 24 | Diisobutyl phthalate (DIBP) | 201-553-2 | 84-69-5 | TRC, EDP |
| 25 | Lead chromate | 231-846-0 | 7758-97-6 | Carcinogenic TRC |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|
| 26 | Lead chromate molybdate sulphate red (C.I. Pigment red 104) | 235-759-9 | 12656-85-8 | Carcinogenic TRC |
| 27 | Lead sulfochromate yellow (C.I. Pigment yellow 34) | 215-693-7 | 1344-37-2 | Carcinogenic TRC |
| 28 | Tris(2-chloroethyl) phosphate (TCEP) | 204-118-5 | 115-96-8 | TRC |
| 29 | Trichloroethylene | 201-167-4 | 79-01-6 | Carcinogenic |
| 30 | Boric acid | 233-139-2 234-343-4 | 10043-35-3 11113-50-1 | TRC |
| 31 | Disodium tetraborate, anhydrous | 215-540-4 | 1330-43-4 12179-04-3 1303-96-4 | TRC |
| 32 | Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | TRC |
| 33 | Sodium chromate | 231-889-5 | 7775-11-3 | Carcinogenic Mutagenic TRC |
| 34 | Potassium chromate | 232-140-5 | 7789-00-6 | Carcinogenic Mutagenic |
| 35 | Ammonium dichromate | 232-143-1 | 7789-09-5 | Carcinogenic Mutagenic TRC |
| 36 | Potassium dichromate | 231-906-6 | 7778-50-9 | Carcinogenic Mutagenic TRC |
| 37 | Cobalt(II) sulphate | 233-334-2 | 10124-43-3 | Carcinogenic TRC |
| 38 | Cobalt(II) dinitrate | 233-402-1 | 10141-05-6 | Carcinogenic TRC |
| 39 | Cobalt(II) carbonate | 208-169-4 | 513-79-1 | Carcinogenic TRC |
| 40 | Cobalt(II) diacetate | 200-755-8 | 71-48-7 | Carcinogenic TRC |
| 41 | 2-Methoxyethanol | 203-713-7 | 109-86-4 | TRC |
| 42 | 2-Ethoxyethanol | 203-804-1 | 110-80-5 | TRC |
| 43 | Chromium trioxide | 215-607-8 | 1333-82-0 | Carcinogenic Mutagenic |
| 44 | Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid | 231-801-5 236-881-5 -- | 7738-94-5 13530-68-2 -- | Carcinogenic |
| 45 | 2-Ethoxyethyl acetate (2-EEA) | 203-839-2 | 111-15-9 | TRC |
| 46 | Strontium chromate | 232-142-6 | 7789-06-2 | Carcinogenic |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 271-084-6 | 68515-42-4 | TRC |
| 48 | Hydrazine | 206-114-9 | 7803-57-8 302-01-2 | Carcinogenic |
| 49 | 1-Methyl-2-pyrrolidone (NMP) | 212-828-1 | 872-50-4 | TRC |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------------------|
| 50 | 1,2,3-Trichloropropane | 202-486-1 | 96-18-4 | Carcinogenic TRC |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 276-158-1 | 71888-89-6 | TRC |
| 52 | Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | Carcinogenic |
| 53 | Potassium hydroxyoctaoxidizincatedi-chromate | 234-329-8 | 11103-86-9 | Carcinogenic |
| 54 | Pentazinc chromate octahydroxide | 256-418-0 | 49663-84-5 | Carcinogenic |
| 55 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 500-036-1 | 25214-70-4 | Carcinogenic |
| 56 | Aluminosilicate refractory ceramic fibres (RCF) ** | -- | -- | Carcinogenic |
| 57 | Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) ** | -- | -- | Carcinogenic |
| 58 | Bis(2-methoxyethyl)phthalate(DMEP) | 204-212-6 | 117-82-8 | TRC |
| 59 | 2-Methoxyaniline(<i>o</i> -Anisidine) | 201-963-1 | 90-04-0 | Carcinogenic |
| 60 | 4-(1,1,3,3-Tetramethylbutyl)phenol, (4- <i>tert</i> -Octylphenol) | 205-426-2 | 140-66-9 | PBT, vPvB |
| 61 | 1,2-Dichloroethane | 203-458-1 | 107-06-2 | Carcinogenic |
| 62 | Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | TRC |
| 63 | Arsenic acid | 231-901-9 | 7778-39-4 | Carcinogenic |
| 64 | Calcium arsenate | 231-904-5 | 7778-44-1 | Carcinogenic |
| 65 | Trilead diarsenate | 222-979-5 | 3687-31-8 | Carcinogenic TRC |
| 66 | N,N-Dimethylacetamide (DMAC) | 204-826-4 | 127-19-5 | TRC |
| 67 | 4,4'-Methylenebis(2-chloroaniline) (MOCA) | 202-918-9 | 101-14-4 | Carcinogenic |
| 68 | Phenolphthalein | 201-004-7 | 77-09-8 | Carcinogenic |
| 69 | Lead azide (Lead diazide) | 236-542-1 | 13424-46-9 | TRC |
| 70 | Lead styphnate | 239-290-0 | 15245-44-0 | TRC |
| 71 | Lead dipicrate | 229-335-2 | 6477-64-1 | TRC |
| 72 | 1,2-Bis(2-methoxyethoxy)ethane (TEGDME; Triglyme) | 203-977-3 | 112-49-2 | TRC |
| 73 | 1,2-Dimethoxyethane; Ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | TRC |
| 74 | Diboron trioxide | 215-125-8 | 1303-86-2 | TRC |
| 75 | Formamide | 200-842-0 | 75-12-7 | TRC |
| 76 | Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 | TRC |
| 77 | 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC) | 219-514-3 | 2451-62-9 | Mutagenic |
| 78 | 1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) | 423-400-0 | 59653-74-6 | Mutagenic |
| 79 | 4,4'-Bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | Carcinogenic |
| 80 | N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | Carcinogenic |
| 81 | {4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene} dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 219-943-6 | 2580-56-5 | Carcinogenic |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------|
| 82 | {4-[4,4'-Bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene}dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 208-953-6 | 548-62-9 | Carcinogenic |
| 83 | 4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 209-218-2 | 561-41-1 | Carcinogenic |
| 84 | α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 229-851-8 | 6786-83-0 | Carcinogenic |
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | 214-604-9 | 1163-19-5 | PBT, vPvB |
| 86 | Pentacosafuorotridecanoic acid | 276-745-2 | 72629-94-8 | vPvB |
| 87 | Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | vPvB |
| 88 | Henicosafuoroundecanoic acid | 218-165-4 | 2058-94-8 | vPvB |
| 89 | Heptacosafuorotetradecanoic acid | 206-803-4 | 376-06-7 | vPvB |
| 90 | 4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues | -- | -- | Equivalent Concern |
| 91 | 4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | -- | -- | Equivalent Concern |
| 92 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 204-650-8 | 123-77-3 | Equivalent Concern |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) | 201-604-9, 236-086-3, 238-009-9 | 85-42-7, 13149-00-3, 14166-21-3 | Equivalent Concern |
| 94 | Hexahydromethylphthalic anhydride (MHHPA-1) Hexahydro-4-methylphthalic anhydride (MHHPA-2) Hexahydro-1-methylphthalic anhydride (MHHPA-3) Hexahydro-3-methylphthalic anhydride (MHHPA-4) | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | Equivalent Concern |
| 95 | Methoxy acetic acid | 210-894-6 | 625-45-6 | TRC |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (PIPP) | 284-032-2 | 84777-06-0 | TRC |
| 97 | Diisopentyl phthalate (DIPP) | 210-088-4 | 605-50-5 | TRC |
| 98 | <i>n</i> -Pentyl- <i>iso</i> -pentyl phthalate (PIPP) | -- | 776297-69-9 | TRC |
| 99 | 1,2-Diethoxyethane | 211-076-1 | 629-14-1 | TRC |
| 100 | N,N-Dimethylformamide; Dimethyl formamide (DMFA) | 200-679-5 | 68-12-2 | TRC |
| 101 | Dibutyltin dichloride (DBT) | 211-670-0 | 683-18-1 | TRC |
| 102 | Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | TRC |
| 103 | Basic lead carbonate (Trilead bis(carbonate) dihydroxide) | 215-290-6 | 1319-46-6 | TRC |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|------------------------------------------------------------|-----------|-------------|------------------------------------|
| 104 | Lead oxide sulfate (Basic lead sulfate) | 234-853-7 | 12036-76-9 | TRC |
| 105 | [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate) | 273-688-5 | 69011-06-9 | TRC |
| 106 | Dioxobis(stearato)trilead | 235-702-8 | 12578-12-0 | TRC |
| 107 | Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | TRC |
| 108 | Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | TRC |
| 109 | Lead cyanamate | 244-073-9 | 20837-86-9 | TRC |
| 110 | Lead dinitrate | 233-245-9 | 10099-74-8 | TRC |
| 111 | Lead oxide (Lead monoxide) | 215-267-0 | 1317-36-8 | TRC |
| 112 | Lead tetroxide (Orange lead) | 215-235-6 | 1314-41-6 | TRC |
| 113 | Lead titanium trioxide | 235-038-9 | 12060-00-3 | TRC |
| 114 | Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | TRC |
| 115 | Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | TRC |
| 116 | Pyrochlore, antimony lead yellow | 232-382-1 | 8012-00-8 | TRC |
| 117 | Silicic acid, barium salt, lead-doped | 272-271-5 | 68784-75-8 | TRC |
| 118 | Silicic acid, lead salt | 234-363-3 | 11120-22-2 | TRC |
| 119 | Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | TRC |
| 120 | Tetraethyllead | 201-075-4 | 78-00-2 | TRC |
| 121 | Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | TRC |
| 122 | Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | TRC |
| 123 | Furan | 203-727-3 | 110-00-9 | Carcinogenic |
| 124 | Propylene oxide; 1,2-Epoxypropane; Methyloxirane | 200-879-2 | 75-56-9 | Carcinogenic Mutagenic |
| 125 | Diethyl sulphate | 200-589-6 | 64-67-5 | Carcinogenic Mutagenic |
| 126 | Dimethyl sulphate | 201-058-1 | 77-78-1 | Carcinogenic |
| 127 | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | TRC |
| 128 | Dinoseb | 201-861-7 | 88-85-7 | TRC |
| 129 | 4,4'-Methylenedi- <i>o</i> -toluidine | 212-658-8 | 838-88-0 | Carcinogenic |
| 130 | 4,4'-Oxydianiline and its salts | 202-977-0 | 101-80-4 | Carcinogenic Mutagenic |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline | 200-453-6 | 60-09-3 | Carcinogenic |
| 132 | 4-Methyl- <i>m</i> -phenylenediamine (2,4-Toluene-diamine) | 202-453-1 | 95-80-7 | Carcinogenic |
| 133 | 6-Methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine) | 204-419-1 | 120-71-8 | Carcinogenic |
| 134 | Biphenyl-4-ylamine ; 4-Aminobiphenyl | 202-177-1 | 92-67-1 | Carcinogenic |
| 135 | <i>o</i> -Aminoazotoluene | 202-591-2 | 97-56-3 | Carcinogenic |
| 136 | <i>o</i> -Toluidine; 2-Aminotoluene | 202-429-0 | 95-53-4 | Carcinogenic |
| 137 | N-Methylacetamide | 201-182-6 | 79-16-3 | TRC |
| 138 | 1-Bromopropane; <i>n</i> -Propyl bromide | 203-445-0 | 106-94-5 | TRC |
| 139 | Cadmium | 231-152-8 | 7440-43-9 | Carcinogenic Equivalent Concern |
| 140 | Cadmium oxide | 215-146-2 | 1306-19-0 | Carcinogenic |
| 141 | Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | TRC |
| 142 | Ammonium pentadecafluorootanoate (APFO) | 223-320-4 | 3825-26-1 | TRC |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|--------------------------------------------------------|
| 143 | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | -- | -- | Equivalent Concern |
| 144 | Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | TRC |
| 145 | Cadmium sulphide | 215-147-8 | 1306-23-6 | Carcinogenic Equivalent Concern |
| 146 | Lead di(acetate) | 206-104-4 | 301-04-2 | TRC |
| 147 | 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) | 217-710-3 | 1937-37-7 | Carcinogenic |
| 148 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 209-358-4 | 573-58-0 | Carcinogenic |
| 149 | Trixylyl phosphate | 246-677-8 | 25155-23-1 | TRC |
| 150 | Dihexyl phthalate (DnHP) | 201-559-5 | 84-75-3 | TRC |
| 151 | Imidazolidine-2-thione; 2-Imidazoline-2-thiol | 202-506-9 | 96-45-7 | TRC |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 271-093-5 | 68515-50-4 | TRC |
| 153 | Cadmium chloride | 233-296-7 | 10108-64-2 | Carcinogenic Equivalent Concern Mutagenic TRC |
| 154 | Sodium perborate; Perboric acid, sodium salt | 239-172-9, 234-390-0 | -- | TRC |
| 155 | Sodium peroxometaborate | 231-556-4 | 7632-04-4 | TRC |
| 156 | 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 25973-55-1 | PBT, vPvB |
| 157 | 2-Benzotriazol-2-yl-4,6-di- <i>tert</i> -butylphenol (UV-320) | 223-346-6 | 3846-71-7 | PBT, vPvB |
| 158 | 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | TRC |
| 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) | -- | -- | TRC |
| 160 | Cadmium fluoride | 232-222-0 | 7790-79-6 | Carcinogenic Equivalent Concern Mutagenic TRC |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|--------------------------------------------------------|
| 161 | Cadmium sulphate | 233-331-6 | 10124-36-4, 31119-53-6 | Carcinogenic Equivalent Concern Mutagenic TRC |
| 162 | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate | 271-094-0 272-013-1 | 68515-51-5 68648-93-1 | TRC |
| 163 | 5- <i>sec</i> -Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5- <i>sec</i> -Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] | -- | -- | vPvB |
| 164 | Nitrobenzene | 202-716-0 | 98-95-3 | TRC |
| 165 | 2,4-Di- <i>tert</i> -butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 223-383-8 | 3864-99-1 | vPvB |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(<i>tert</i> -butyl)-6-(<i>sec</i> -butyl)phenol (UV-350) | 253-037-1 | 36437-37-3 | vPvB |
| 167 | 1,3-Propanesultone | 214-317-9 | 1120-71-4 | Carcinogenic |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts | 206-801-3 | 375-95-1 21049-39-8 4149-60-4 | TRC, PBT |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 200-028-5 | 50-32-8 | Carcinogenic Mutagenic TRC, PBT, vPvB |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A; BPA) | 201-245-8 | 80-05-7 | TRC, EDP |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 206-400-3 221-470-5 | 335-76-2 3830-45-3 3108-42-7 | TRC, PBT |
| 172 | 4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | -- | -- | TRC |
| 173 | <i>p</i> -(1,1-Dimethylpropyl)phenol | 201-280-9 | 80-46-6 | TRC |
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | -- | -- | vPvB |
| 175 | Benz[a]anthracene | 200-280-6 | 56-55-3 | Carcinogenic PBT vPvB |
| 176 | Cadmium nitrate | 233-710-6 | 10325-94-7 | Carcinogenic Mutagenic STOT |
| 177 | Cadmium hydroxide | 244-168-5 | 21041-95-2 | Carcinogenic Mutagenic STOT |



Test Conducted :

| No. | Substance Name | EC Number | CAS Number | Reason for Inclusion |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------------------------------|
| 178 | Cadmium carbonate | 208-168-9 | 513-78-0 | Carcinogenic Mutagenic STOT |
| 179 | Chrysene | 205-923-4 | 218-01-9 | Carcinogenic PBT vPvB |
| 180 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octade ca-7,15-diene ("Dechlorane Plus" TM) covering any of its individual anti- and syn-isomers or any combination thereof | -- | -- | vPvB |
| 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] | -- | -- | EDP |
| 182 | Octamethylcyclotetrasiloxane (D4) | 209-136-7 | 556-67-2 | PBT, vPvB |
| 183 | Decamethylcyclopentasiloxane (D5) | 208-764-9 | 541-02-6 | PBT, vPvB |
| 184 | Dodecamethylcyclohexasiloxane (D6) | 208-762-8 | 540-97-6 | PBT, vPvB |
| 185 | Lead | 231-100-4 | 7439-92-1 | TRC |
| 186 | Disodium octaborate | 234-541-0 | 12008-41-2 | TRC |
| 187 | Benzo[g,h,i]perylene | 205-883-8 | 191-24-2 | PBT, vPvB |
| 188 | Terphenyl hydrogenated | 262-967-7 | 61788-32-7 | vPvB |
| 189 | Ethylenediamine (EDA) | 203-468-6 | 107-15-3 | RSP |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA) | 209-008-0 | 552-30-7 | RSP |
| 191 | Dicyclohexyl phthalate (DCHP) | 201-545-9 | 84-61-7 | TRC, EDP |

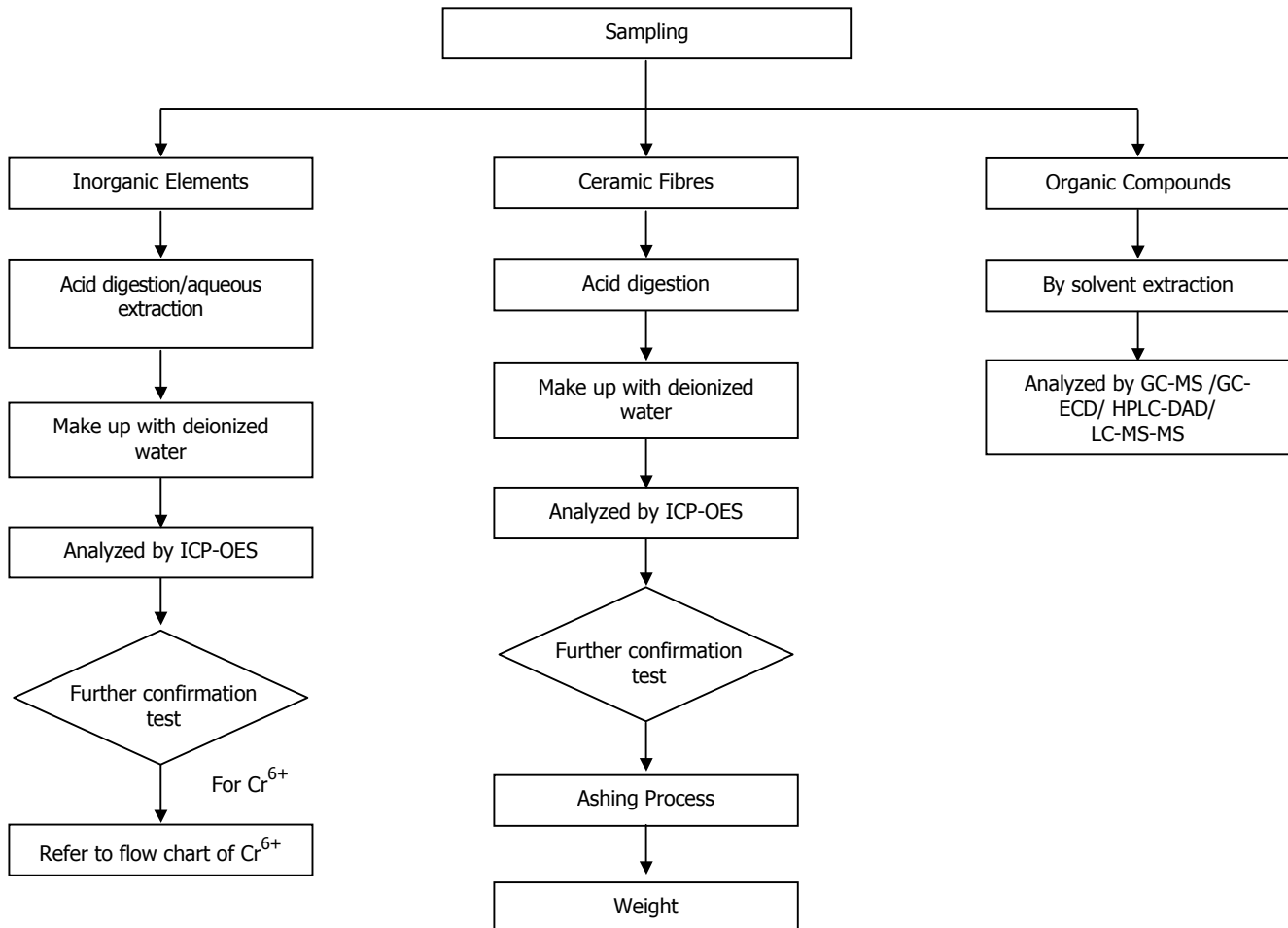
Remarks:

- TRC = Toxic for Reproduction
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent And Very Bioaccumulative
- EDP = Endocrine Disrupting Properties
- STOT = Specific Target Organ Toxicity after Repeated Exposure
- RSP = Respiratory sensitising properties
- ** = The Dec 19, 2011 'Aluminosilicate Refractory Ceramic Fibres' and 'Zirconia Aluminosilicate Refractory Ceramic Fibres' listings open the scope of these items from the original listing (Jan 1, 2010). Although these two modified substances are counted as additions to the existing list, they are revisions of the original substance listings to ensure all hazardous versions are covered. As of Jun 18, 2012, these entries have been consolidated; there is now one entry for 'Aluminosilicate Refractory Ceramic Fibres' and one entry for 'Zirconia Aluminosilicate Refractory Ceramic Fibres'.



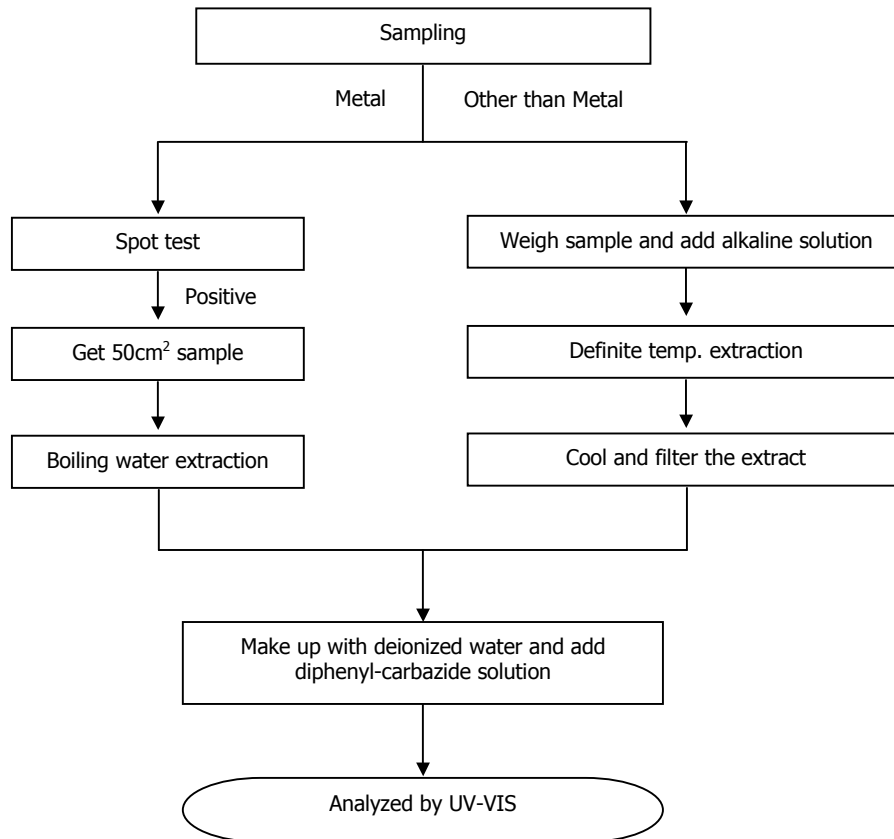
Test Conducted :

Measurement Flowchart:



Test Conducted :

Test for Chromium (VI) Content



Sample photo:



End of Report

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