



# REACH SVHC Survey Summary

|                          |               |
|--------------------------|---------------|
| 保管單位<br>Storage          | GERM          |
| 保存年限<br>Retention Period | 五年<br>5 years |

| Product description:   | TFT-LCD MODULE                      | Model name:     | G190ETN01.6        |  |
|--|-------------------------------------|-----------------|--------------------|--|
| AUO Part No.:  | 97.19G04.600                        | Product weight: | 1600 g             |  |
| Substance identification   |                                     | Exist? (Yes/No) | Description of use | THE WEIGHT OF THE RELATED MATERIAL<br>(using the SVHC) |
| Substance name   | (CAS No)                            |                 |                    |  |
| Benzo[def]chrysene   | 50-32-8                             | No              | -                  | -  |
| 1,3-propanesultone   | 1120-71-4                           | No              | -                  | -  |
| 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-   | 3864-99-1                           | No              | -                  | -  |
| 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-  | 36437-37-3                          | No              | -                  | -  |
| Nitrobenzene   | 98-95-3                             | No              | -                  | -  |
| Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 375-95-1<br>21049-39-8<br>4149-60-4 | No              | -                  | -  |
| 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 (EC No. 201-559-5)  | 68515-51-5<br>68648-93-1            | No              | -                  | -  |
| 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 stereoisomers of [1] and [2] or any combination thereof]                    | --                                  | No              | -                  | -  |
| Bis (2-ethylhexyl)phthalate (DEHP)   | 117-81-7                            | No              | -                  | -  |
| Cadmium fluoride   | 7790-79-6                           | No              | -                  | -  |
| 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) | --                                  | No              | -                  | -  |
| 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                          | No              | -                  | -  |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7                           | No              | -                  | -  |
| Cadmium sulphate   | 10124-36-4<br>31119-53-6            | No              | -                  | -  |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1                          | Yes             | POLARIZER_TAC      | 361.233114 mg  |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4                          | No              | -                  | -  |
| Sodium perborate; perboric acid, sodium salt   | --                                  | No              | -                  | -  |
| Sodium peroxometaborate  | 7632-04-4                           | No              | -                  | -  |
| Cadmium chloride   | 10108-64-2                          | No              | -                  | -  |
| Cadmium sulphide   | 1306-23-6                           | No              | -                  | -  |
| 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                           | No              | -                  | -  |
| Dihexyl phthalate  | 84-75-3                             | No              | -                  | -  |

|   |  |    |   |   |
|---|--|----|---|---|
| Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 96-45-7  | No | - | - |
| Trixylyl phosphate  | 25155-23-1   | No | - | - |
| Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0   | No | - | - |
| Lead di(acetate)  | 301-04-2   | No | - | - |
| Cadmium oxide   | 1306-19-0  | No | - | - |
| 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] | --   | No | - | - |
| Dipentyl phthalate (DPP)  | 131-18-0   | No | - | - |
| Pentadecafluorooctanoic acid (PFOA)   | 335-67-1   | No | - | - |
| Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1  | No | - | - |
| Cadmium   | 7440-43-9  | No | - | - |
| Pyrochlore, antimony lead yellow  | 8012-00-8  | No | - | - |
| 6-methoxy-m-toluidine (p-cresidine)   | 120-71-8   | No | - | - |
| Henicosfluoroundecanoic acid  | 2058-94-8  | No | - | - |
| Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric f   | 25550-51-0<br>19438-60-9<br>48122-14-1<br>57110-29-9 | No | - | - |
| Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isom   | 85-42-7<br>13149-00-3<br>14166-21-3                  | No | - | - |
| Dibutyltin dichloride (DBTC)  | 683-18-1   | No | - | - |
| Lead bis(tetrafluoroborate)   | 13814-96-5   | No | - | - |
| Lead dinitrate  | 10099-74-8   | No | - | - |
| Silicic acid, lead salt   | 11120-22-2   | No | - | - |
| 4-Aminoazobenzene   | 1960-09-3  | No | - | - |
| Lead titanium zirconium oxide   | 12626-81-2   | No | - | - |

|   |             |    |   |   |
|---|-------------|----|---|---|
| Lead monoxide (lead oxide)  | 1317-36-8   | No | - | - |
| o-Toluidine   | 95-53-4     | No | - | - |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 143860-04-2 | No | - | - |
| Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped  | 68784-75-8  | No | - | - |
| Trilead bis(carbonate)dihydroxide   | 1319-46-6   | No | - | - |
| Furan   | 110-00-9    | No | - | - |
| N,N-dimethylformamide   | 1968-12-2   | No | - | - |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br><i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>   | -           | No | - | - |
| 4-Nonylphenol, branched and linear<br><i>[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 c</i> | -           | No | - | - |
| 4,4'-methylenedi-o-toluidine  | 838-88-0    | No | - | - |
| Diethyl sulphate  | 64-67-5     | No | - | - |
| Dimethyl sulphate   | 77-78-1     | No | - | - |
| Lead oxide sulfate  | 12036-76-9  | No | - | - |
| Lead titanium trioxide  | 12060-00-3  | No | - | - |
| Acetic acid, lead salt, basic   | 51404-69-4  | No | - | - |
| [Phthalato(2-)]dioxotrilead   | 69011-06-9  | No | - | - |
| Bis(pentabromophenyl) ether<br>(decabromodiphenyl ether; DecaBDE)   | 1163-19-5   | No | - | - |
| N-methylacetamide   | 79-16-3     | No | - | - |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol)   | 88-85-7     | No | - | - |
| 1,2-Diethoxyethane  | 629-14-1    | No | - | - |
| Tetralead trioxide sulphate   | 12202-17-4  | No | - | - |
| N-pentyl-isopentylphthalate   | 776297-69-9 | No | - | - |
| Dioxobis(stearato)trilead   | 12578-12-0  | No | - | - |
| Tetraethyllead  | 78-00-2     | No | - | - |
| Pentalead tetraoxide sulphate   | 12065-90-6  | No | - | - |
| Pentacosfluorotridecanoic acid  | 72629-94-8  | No | - | - |



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|  |            |    |   |   |
|--|------------|----|---|---|
| Tricosafuorododecanoic acid  | 307-55-1   | No | - | - |
| Heptacosafuorotetradecanoic acid   | 376-06-7   | No | - | - |
| 1-bromopropane (n-propyl bromide)  | 106-94-5   | No | - | - |
| Methoxyacetic acid   | 625-45-6   | No | - | - |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine)  | 95-80-7    | No | - | - |
| Methyloxirane (Propylene oxide)  | 75-56-9    | No | - | - |
| Trilead dioxide phosphonate  | 12141-20-7 | No | - | - |
| o-aminoazotoluene  | 97-56-3    | No | - | - |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0 | No | - | - |
| 4,4'-oxydianiline and its salts  | 101-80-4   | No | - | - |
| Orange lead (lead tetroxide)   | 1314-41-6  | No | - | - |
| Biphenyl-4-ylamine   | 92-67-1    | No | - | - |
| Diisopentylphthalate   | 605-50-5   | No | - | - |
| Fatty acids, C16-18, lead salts  | 91031-62-8 | No | - | - |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3   | No | - | - |
| Sulfurous acid, lead salt, dibasic   | 62229-08-7 | No | - | - |
| Lead cyanamidate   | 20837-86-9 | No | - | - |
| α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 6786-83-0  | No | - | - |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1   | No | - | - |
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)  | 59653-74-6 | No | - | - |
| Diboron trioxide   | 1303-86-2  | No | - | - |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2   | No | - | - |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                      | 561-41-1   | No | - | - |
| Lead(II) bis(methanesulfonate)   | 17570-76-2 | No | - | - |
| Formamide  | 1975-12-7  | No | - | - |
| [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-   | 548-62-9   | No | - | - |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4   | No | - | - |

|   |            |    |   |   |
|---|------------|----|---|---|
| [4-[[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>                     | 2580-56-5  | No | - | - |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)  | 2451-62-9  | No | - | - |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 90-94-8    | No | - | - |
| 4-(1,1,3,3-tetramethylbutyl)phenol  | 140-66-9   | No | - | - |
| N,N-dimethylacetamide   | 127-19-5   | No | - | - |
| Phenolphthalein   | 1977-09-8  | No | - | - |
| Lead diazide, Lead azide  | 13424-46-9 | No | - | - |
| Lead dipicrate  | 6477-64-1  | No | - | - |
| 1,2-dichloroethane  | 107-06-2   | No | - | - |
| Calcium arsenate  | 7778-44-1  | No | - | - |
| Dichromium tris(chromate)   | 24613-89-6 | No | - | - |
| 2-Methoxyaniline; o-Anisidine   | 90-04-0    | No | - | - |
| Pentazinc chromate octahydroxide  | 49663-84-5 | No | - | - |
| Arsenic acid  | 7778-39-4  | No | - | - |
| Potassium hydroxyoctaoxodizincatedichromate   | 11103-86-9 | No | - | - |
| Formaldehyde, oligomeric reaction products with aniline   | 25214-70-4 | No | - | - |
| Lead styphnate  | 15245-44-0 | No | - | - |
| Trilead diarsenate  | 3687-31-8  | No | - | - |
| Zirconia Aluminosilicate Refractory Ceramic Fibres  | --         | No | - | - |
| Bis(2-methoxyethyl) phthalate   | 117-82-8   | No | - | - |
| Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and pac | --         | No | - | - |
| Bis(2-methoxyethyl) ether   | 111-96-6   | No | - | - |
| 2,2'-dichloro-4,4'-methylenedianiline   | 101-14-4   | No | - | - |
| Cobalt dichloride   | 7646-79-9  | No | - | - |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  | 71888-89-6 | No | - | - |

|   |                          |     |               |             |
|---|--------------------------|-----|---------------|-------------|
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 68515-42-4               | No  | -             | -           |
| Strontium chromate  | 7789-06-2                | No  | -             | -           |
| 1-Methyl-2-pyrrolidone  | 872-50-4                 | No  | -             | -           |
| 1,2,3-Trichloropropane  | 96-18-4                  | No  | -             | -           |
| 2-Ethoxyethyl acetate   | 111-15-9                 | No  | -             | -           |
| Hydrazine   | 302-01-2<br>7803-57-8    | No  | -             | -           |
| Cobalt(II) diacetate  | 71-48-7                  | No  | -             | -           |
| Cobalt(II) sulphate   | 10124-43-3               | No  | -             | -           |
| 2-Ethoxyethanol   | 110-80-5                 | No  | -             | -           |
| Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. | 7738-94-5<br>13530-68-2  | No  | -             | -           |
| 2-Methoxyethanol  | 109-86-4                 | No  | -             | -           |
| Chromium trioxide   | 1333-82-0                | No  | -             | -           |
| Cobalt(II) carbonate  | 513-79-1                 | No  | -             | -           |
| Cobalt(II) dinitrate  | 10141-05-6               | No  | -             | -           |
| Trichloroethylene   | 1979-01-6                | No  | -             | -           |
| Potassium dichromate  | 7778-50-9                | No  | -             | -           |
| Tetraboron disodium heptaoxide, hydrate   | 12267-73-1               | No  | -             | -           |
| Ammonium dichromate   | 7789-09-5                | No  | -             | -           |
| Boric acid  | 10043-35-3<br>11113-50-1 | Yes | POLARIZER_PVA | 25.48823 mg |
| Sodium chromate   | 7775-11-3                | No  | -             | -           |
| Disodium tetraborate, anhydrous   | 1303-96-4<br>1330-43-4   | No  | -             | -           |
| Potassium chromate  | 7789-00-6                | No  | -             | -           |
| Acrylamide  | 1979-06-1                | No  | -             | -           |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | 1344-37-2                | No  | -             | -           |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | 12656-85-8               | No  | -             | -           |
| Anthracene oil  | 90640-80-5               | No  | -             | -           |
| 2,4-Dinitrotoluene  | 121-14-2                 | No  | -             | -           |
| Anthracene oil, anthracene paste, anthracene fraction   | 91995-15-2               | No  | -             | -           |



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|   |  |    |   |   |
|---|--|----|---|---|
| Anthracene oil, anthracene-low  | 90640-82-7   | No | - | - |
| Tris(2-chloroethyl)phosphate  | 115-96-8   | No | - | - |
| Diisobutyl phthalate  | 84-69-5  | No | - | - |
| Lead chromate   | 7758-97-6  | No | - | - |
| Anthracene oil, anthracene paste  | 90640-81-6   | No | - | - |
| Pitch, coal tar, high temp.   | 65996-93-2   | No | - | - |
| Anthracene oil, anthracene paste, distn. lights   | 91995-17-4   | No | - | - |
| Lead hydrogen arsenate  | 7784-40-9  | No | - | - |
| Benzyl butyl phthalate (BBP)  | 85-68-7  | No | - | - |
| Bis (2-ethylhexyl)phthalate (DEHP)  | 117-81-7   | No | - | - |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)  | 81-15-2  | No | - | - |
| Diarsenic trioxide  | 1327-53-3  | No | - | - |
| Bis(tributyltin)oxide (TBTO)  | 56-35-9  | No | - | - |
| Triethyl arsenate   | 15606-95-8   | No | - | - |
| Diarsenic pentaoxide  | 1303-28-2  | No | - | - |
| Sodium dichromate   | 7789-12-0<br>10588-01-9  | No | - | - |
| Dibutyl phthalate (DBP)   | 84-74-2  | No | - | - |
| 4,4'- Diaminodiphenylmethane (MDA)  | 101-77-9   | No | - | - |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | 85535-84-8   | No | - | - |
| Anthracene  | 120-12-7   | No | - | - |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane | 25637-99-4<br>3194-55-6<br>(134237-50-6)<br>(134237-51-7)<br>(134237-52-8) | No | - | - |

Remark: Boric acid is PVA cross-linking agent, which could not be replaced. It is an additive volume, not equal residual.

Company Name: AU Optonics Corp.

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