



# REACH SVHC Survey Summary

保管單位 Storage	GERM
保存年限 Retention Period	五年 5 years

Product description:	TFT-LCD MODULE	Model name:	G190EAN01.1	
AUO Part No.:	97.19G06.100	Product weight:	1,600 g	
Substance identification		Exist? (Yes/No)	Description of use	THE WEIGHT OF THE RELATED MATERIAL (using the SVHC)
Substance name	(CAS 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 21049-39-8 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 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 DOTE)	--	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 31119-53-6	No		
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Yes	POLARIZER_TAC	322.720638 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		
Henicosafuoroundecanoic 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 19438-60-9 48122-14-1 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 13149-00-3 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 <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	No		
4-Nonylphenol, branched and linear <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 (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		
Diazeno-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		



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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 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 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 11113-50-1	Yes	POLARIZER_PVA	26.00286 mg
Sodium chromate	7775-11-3	No		
Disodium tetraborate, anhydrous	1303-96-4 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 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 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	No		
Benzo[def]chrysene	50-32-8	No		

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

Company Name: AU Optronics Corp.

Company Address: 1 Li-Jsin Rd. 2 Hsinchu Science Park, Hsinchu 300, Taiwan, R.O.C

AUO Contact window: YuFan Chen

Phone: 886-3-5008800 #8600-7310

Email: YuFan.Chen@auo.com

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