

## Associated Components Technology REACH and RoHS Substance List

<b>Supplier Declaration for Articles/substances Provided</b>	MTPxxxx-Series	
We declare that information provided in the table below is true and complete to the best of our knowledge and that the articles we provide are compliant to restrictions on substances listed in Annex XVII of REACH.		
<b>ECHA webpage:</b> Annex XVII of REACH	<a href="http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp?sortBy=Name&amp;order=ascending">http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp?sortBy=Name&amp;order=ascending</a>	
<b>Supplier Name:</b> ASSOCIATED COMPONENTS TECHNOLOGY		<b>Date:</b> 06/29/2015
<b>Supplier Address:</b> 13932 Nautilus Drive, Garden Grove, CA 92843		<b>Name of Individual / Contact Phone Providing Detail:</b> Matthew Wang / (714)265-4800

### REACH 1 SVHC List (original list released in 2008)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Anthracene	120-12-7	204-371-1	N		
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	N		
Dibutyl phthalate (DBP)	84-74-2	201-557-4	N		
Cobalt dichloride	7646-79-9	231-589-4	N		
Diarsenic pentaoxide	1303-28-2	215-116-9	N		
Diarsenic trioxide	1327-53-3	215-481-4	N		
Sodium dichromate, dihydrate	7789-12-0, 10588-019	234-190-3	N		
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	N		
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	N		
Hexabromocyclododecane (HBCDD)	25637-99-4, 3194-556 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9	N		
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	N		
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	N		
Lead hydrogen arsenate	7784-40-9	232-064-2	N		
Triethyl arsenate	15606-95-8	427-700-2	N		
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	N		

### REACH 2 SVHC Substances (released in January 2010)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Anthracene oil	90640-80-5	292-602-7	N		
Anthracene oil, anthracene paste, distn. lights *	91995-17-4	295-278-5	N		
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N		
Anthracene oil, anthracene-low	90640-82-7	292-604-8	N		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	N		
Coal tar pitch, high temperature	65996-93-2	266-028-2	N		
2,4-Dinitrotoluene	121-14-2	204-450-0	N		
Diisobutyl phthalate	84-69-5	201-553-2	N		
Lead chromate	7758-97-6	231-846-0	N		
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N		
Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N		
Tris(2-chloroethyl)phosphate (Released March 2010)	115-96-8	204-118-5	N		
Acrylamide	79-06-1	201-173-7	N		

\* Light fractions from distillation  
 \*\* All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labelling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).  
 \*\*\* C.I.: Colour Index

### REACH 3 SVHC Substances (released in July 2010)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Trichloroethylene	79-01-6	201-167-4	N		
Boric Acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N N		
Disodium Tetraborate, Anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	N		
Tetraboron Disodium Heptaoxide, Hydrate	12267-73-1	235-541-3	N		
Sodium Chromate	7775-11-3	231-889-5	N		
Potassium Chromate	7789-00-6	232-140-5	N		
Ammonium Dichromate	7789-09-5	232-143-1	N		
Potassium Dichromate	7778-50-9	231-906-6	N		

#### REACH 4 SVHC Substances (released in December 2010)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Cobalt(II) sulphate	10124-43-3	233-334-2	N		
Cobalt(II) dinitrate	10141-05-6	233-402-1	N		
Cobalt(II) carbonate	513-79-1	208-169-4	N		
Cobalt(II) diacetate	71-48-7	200-755-8	N		
2-Methoxyethanol	109-86-4	203-713-7	N		
2-Ethoxyethanol	110-80-5	203-804-1	N		
Chromium trioxide	1333-82-0	215-607-8	N		
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	N		

#### REACH 5 SVHC Substances (released in June 2011)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
2-Ethoxyethyl acetate	111-15-9	203-839-2	N		
Strontium chromate	7789-06-2	232-142-6	N		
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N		
Hydrazine	302-01-2 / 7803-57-8	206-114-9	N		
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	N		
1,2,3-Trichloropropane	96-18-4	202-486-1	N		
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N		

#### REACH 6 SVHC Substances (released in December 2011)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Zirconia 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 packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight			N		
Calcium arsenate	7778-44-1	231-904-5	N		
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N		

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 packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or				N	
Potassium hydroxyoctaoxidzincatedichromate	11103-86-9	234-329-8		N	
Lead dipicrate	6477-64-1	229-335-2		N	
N,N-dimethylacetamide	127-19-5	204-826-4		N	
Arsenic acid	7778-39-4	231-901-9		N	
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1		N	
Trilead diarsenate	3687-31-8	222-979-5		N	
1,2-dichloroethane	107-06-2	203-458-1		N	
Pentazinc chromate octahydroxide	49663-84-5	256-418-0		N	
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1		N	
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6		N	
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2		N	
Lead diazide, Lead azide	13424-46-9	236-542-1		N	
Phenolphthalein	77-09-8	201-004-7		N	
Dichromium tris(chromate)	24613-89-6	246-356-2		N	
Lead styphnate	15245-44-0	239-290-0		N	
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9		N	

### REACH 7 SVHC Substances (released in June 2012)

**Do the parts or materials within your supply chain contain any of the following?**

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
±,1-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <em>[with ≤ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</em>	6786-83-0	229-851-8	N		
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	N		
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (P-TGIC)	59653-74-6	423-400-0	N		
Diboron trioxide	1303-86-2	215-125-8	N		
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	N		
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <em>[with ≤ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</em>	561-41-1	209-218-2	N		
Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	N		
Formamide	75-12-7	200-842-0	N		
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <em>[with ≤ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</em>	548-62-9	208-953-6	N		
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N		
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <em>[with ≤ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</em>	2580-56-5	219-943-6	N		
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	N		

4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	N		
<b>REACH 8 SVHC Substances (released in December 2012)</b>					
<b>Do the parts or materials within your supply chain contain any of the following?</b>					
Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	N		
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	N		
Henicosafluoroundecanoic acid	2058-94-8	218-165-4	N		
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>	25550-51-0, 19438- 60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	N		
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2- dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i>	85-42-7, 13149-00- 3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N		
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	N		
Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	N		
Lead dinitrate	10099-74-8	233-245-9	N		
Silicic acid, lead salt	11120-22-2	234-363-3	N		
4-Aminoazobenzene	60-09-3	200-453-6	N		
Lead titanium zirconium oxide	12626-81-2	235-727-4	N		
Lead monoxide (lead oxide)	1317-36-8	215-267-0	N		
o-Toluidine	95-53-4	202-429-0	N		
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine	143860-04-2	421-150-7	N		
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> , barium salt (1:1), lead-doped   <i>[with lead (Pb) content above the applicable generic concentration limit for â€™toxicity for reproductionâ€™ Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00- 6 in Regulation (EC) No 1272/2008]</i>	68784-75-8	272-271-5	N		
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	N		
Furan	110-00-9	203-727-3	N		
N,N-dimethylformamide	68-12-2	200-679-5	N		
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	N		
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 combination thereof]</i>	-	-	N		
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	N		
Diethyl sulphate	64-67-5	200-589-6	N		
Dimethyl sulphate	77-78-1	201-058-1	N		
Lead oxide sulfate	12036-76-9	234-853-7	N		
Lead titanium trioxide	12060-00-3	235-038-9	N		
Acetic acid, lead salt, basic	51404-69-4	257-175-3	N		

[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	N		
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N		
N-methylacetamide	79-16-3	201-182-6	N		
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	N		
1,2-Diethoxyethane	629-14-1	211-076-1	N		
Tetralead trioxide sulphate	12202-17-4	235-380-9	N		
N-pentyl-isopentylphthalate	776297-69-9	-	N		
Dioxobis(stearato)trilead	12578-12-0	235-702-8	N		
Tetraethyllead	78-00-2	201-075-4	N		
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	N		
Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	N		
Tricosfluorododecanoic acid	307-55-1	206-203-2	N		
Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	N		
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	N		
Methoxyacetic acid	625-45-6	210-894-6	N		
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	N		
Methyloxirane (Propylene oxide)	75-56-9	200-879-2	N		
Trilead dioxide phosphonate	12141-20-7	235-252-2	N		
o-aminoazotoluene	97-56-3	202-591-2	N		
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	N		
4,4'-oxydianiline and its salts	101-80-4	202-977-0	N		
Orange lead (lead tetroxide)	1314-41-6	215-235-6	N		
Biphenyl-4-ylamine	92-67-1	202-177-1	N		
Diisopentylphthalate	605-50-5	210-088-4	N		
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	N		
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	N		
Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	N		
Lead cyanamidate	20837-86-9	244-073-9	N		

**REACH 9 SVHC Substances** (released in June 20 2013)

Do the parts or materials within your supply chain contain any of the following?					
Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Cadmium	7440-43-9	231-152-8	N		
Cadmium oxide	1306-19-0	215-146-2	N		
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	N		
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	N		
Dipentyl phthalate (DPP)	131-18-0	205-017-9	N		
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]	-	-	N		

**REACH 10 SVHC Substances** (released in December 18 2013)

Do the parts or materials within your supply chain contain any of the following?					
Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Cadmium sulphide	1306-23-6	215-147-8	N		
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	N		
Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-sulphonate (C.I. Direct Black 39)	1937-37-7	217-710-3	N		

Dihexyl phthalate	84-75-3	201-559-5	N		
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	N		
Lead di(acetate)	301-04-2	206-104-4	N		
Trixylyl phosphate	25155-23-1	246-677-8	N		

### REACH 11 SVHC Substances (released in June 16, 2014)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
Cadmium chloride	10108-64-2	233-296-7	N		
Sodium peroxometaborate	7632-04-4	231-556-4	N		
Sodium perborate; perboric acid, sodium salt		239-172-9; 234-390-0	N		
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	N		

### REACH 12 SVHC Substances (released in December 17, 2014)

Do the parts or materials within your supply chain contain any of the following?

Substance name	CAS number	EC number	Substance in use in component/product? Y / N	Comment	Max % (optional)
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	N		
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	N		
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)	-	-	N		
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	N		
Cadmium fluoride	7790-79-6	232-222-0	N		
Cadmium sulphate	10124-36-4,31119-53-6	233-331-6	N		