



# STACKED Technologies Inc

830 Stewart Drive Suite 128  
Sunnyvale, CA 94085  
408-701-7316

## REACH Certificate of Compliance

25 September, 2015

This letter is to declare that the following REACH Substances of Very High Concern (SVHC), as specified in the lists below are not incorporated into any of our processes and products. Logic Devices Inc.'s fully support the objectives of REACH and continue to monitor the EU regulations for changes that may require our attention.

### REACH SVHC List

Original List Dated 10-28-2008

Chemical	CAS number	EU number
Anthracene	120-12-7	204-371-1
4,4'-Diaminodiphenylmethane, also 4,4'-Methylenedianiline	101-77-9	202-974-4
Dibutyl Phthalate, also n-Dibutyl Phthalate	84-74-2	201-557-4
Cobalt Dichloride	7646-79-9	231-589-4
Diarsenic Pentaoxide, also Arsenic Pentoxide	1303-28-2	215-116-9
Diarsenic Trioxide, also Arsenic Trioxide	1327-53-3	215-481-4
Sodium Dichromate	7789-12-0, 10588-01-9	234-190-3
5-tert-butyl-2,4,6-trinitro-m-xylene, also Musk Xylene	81-15-2	201-329-4
Bis(2-ethylhexyl)phthalate, also Dioctyl Phthalate (DEHP)	117-81-7	204-211-0
Hexabromocyclododecane(HBCDD),also major diastereoisomers	134237-50-6, 51-7, -52-8	247-148-4, 221-695-9
Alkanes, C10 -13, short chain chlorinated paraffins	various, 85535-84-8	287-476-5
Bis(tributyltin) Oxide	56-35-9	200-268-0
Lead Hydrogen Arsenate	7784-40-9	232-064-2
Benzyl Butyl Phthalate (BPP)	85-68-7	201-622-7
Triethyl Arsenate	15606-95-8	427-700-2

### REACH SVHC List

Additional List Dated 01-03-2010

2,4-Dinitrotoluene	121-14-2	204-450-0
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Anthracene oil	90640-80-5	292-602-7
Anthracene oil, Anthracene paste	90640-81-6	292-603-2
Anthracene oil, Anthracene paste, Anthracene fraction	91995-15-2	295-275-9
Anthracene oil, Anthracene paste, Anthracene distn.	91995-17-4	295-278-5
Anthracene oil, Anthracene-low	90640-82-7	292-604-8
Diisobutyl Phthalate	84-69-5	201-553-2
Lead Chromate	7758-97-6	231-846-0
Lead Chromate Molybdate Sulphate Red (red 104)	12656-85-8	235-759-9
Lead Sulfochromate Yellow (yellow 34)	1344-37-2	215-693-7
Pitch, Coal Tar, high temperature	65996-93-2	266-028-2
Tris (2-chloroethyl) phosphate	115-98-8	204-118-5

## REACH SVHC List

## Additional List Dated 06-18-2010

Acrylamide	79-06-1	201-173-7
Trichloroethylene	79-01-6	201-167-4
Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-3434
Disodium tetraborate, anhydrous	1330-43-4 / 1303-96-4 / 12179-04-3	215-540-4
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Sodium chromate	7775-11-3	231-889-5
Potassium chromate	7789-00-6	232-140-5
Ammonium dichromate	7789-09-5	232-143-1
Potassium dichromate	7778-50-9	231-906-6

## REACH SVHC List

## Additional List Dated 12-15-2010

2-Ethoxyethanol	110-80-5	203-804-1
2-Methoxyethanol	109-86-4	203-713-7



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Chromic acids	7738-94-5, 13530-68-2	231-801-5, 236-881-5
Chromium trioxide	1333-82-0	215-607-8
Cobalt(II) carbonate	513-79-1	208-169-4
Cobalt(II) diacetate	71-48-7	200-755-8
Cobalt(II) dinitrate	10141-05-6	233-402-1
Cobalt(II) sulphate	10124-43-3	233-334-2

## REACH SVHC List

## Additional List Dated 06-20-2011

2-Ethoxyethyl acetate	111-15-9	203-839-2
Strontium chromate	7789-06-02	232-142-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	668515-42-4	271-084
Hydrazine	302-01-2 / 7803-57-8	206-114-9
1-Methyl-2-pyrrolidone	872-50-4	212-828-1
1,2,3-Trichloropropane	96-18-4	202-486-1
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1

## REACH SVHC List

## Additional List Dated 12-19-2011

2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
Calcium arsenate	7778-44-1	231-904-5
Trilead diarsenate	3687-31-8	222-979-5
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
N,N-dimethylacetamide	127-19-5	204-826-4
Lead styphnate	15245-44-0	239-290-0



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Lead diazide, Lead azide 236	13424-46-9	236-542-1
Lead dipicrate	6477-64-1	229-335-2
Phenolphthalein	77-09-8	201-004-7
Arsenic acid	7778-39-4	231-901-9
Bis(2-methoxyethyl) ether	111-96-6	203-924-4
1,2-Dichloroethane	107-06-2	203-458-1
4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	205-426-2
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1
Pentazinc chromate octahydroxide	49663-84-5	256-418-0
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
Dichromium tris(chromate)	24613-89-6	246-356-2
Zirconia Aluminosilicate Refractory Ceramic Fibres		
Aluminosilicate Refractory Ceramic Fibres		

## REACH SVHC List

Additional List Dated 06-18-2012

$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [ <i>with</i> $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0
Diboron trioxide	1303-86-2	215-125-8
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [ <i>with</i> $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2
Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5



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Formamide	75-12-7	200-842-0
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [ <i>with</i> $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [ <i>with</i> $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5

## Additional List Dated 12-19-2012

Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
Pentacosaflluorotridecanoic acid	72629-94-8	276-745-2
Tricosaflluorododecanoic acid	307-55-1	206-203-2
Henicosaflluoroundecanoic acid	2058-94-8	218-165-4
Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-
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	-	-
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9



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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	247-094-1, 243-072-0, 256-356-4, 260-566-1
Methoxy acetic acid	625-45-6	210-894-6
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
Diisopentylphthalate	605-50-5	210-088-4
N-pentyl-isopentylphthalate	776297-69-9	-
1,2-Diethoxyethane	629-14-1	211-076-1
N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5
Dibutyltin dichloride (DBT)	683-18-1	211-670-0
Acetic acid, lead salt, basic	51404-69-4	257-175-3
Trilead bis(carbonate)dihydroxide (basic lead carbonate)	1319-46-6	215-290-6
Lead oxide sulphate	12036-76-9	234-853-7
[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
Dioxobis(stearato)trilead	12578-12-0	235-702-8
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
Lead bis (tetrafluoroborate)	13814-96-5	237-486-0
Lead cyanamate	20837-86-9	244-073-9
Lead dinitrate	10099-74-8	233-245-9
Lead oxide (lead monoxide)	1317-36-8	215-267-0
Lead tetroxide (orange lead)	1314-41-6	215-235-6
Lead titanium trioxide	12060-00-3	235-038-9
Lead Titanium Zirconium Oxide	12626-81-2	235-727-4
Pentalead tetraoxide sulphate	12065-90-6	235-067-7
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5
Silicic acid, lead salt	11120-22-2	234-363-3



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Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
Tetraethyllead	78-00-2	201-075-4
Tetralead trioxide sulphate	12202-17-4	235-380-9
Trilead dioxide phosphonate	12141-20-7	235-252-2
Furan	110-00-9	203-727-3
Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2
Diethyl sulphate	64-67-5	200-589-6
Dimethyl sulphate	77-78-1	201-058-1
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
Dinoseb	88-85-7	201-861-7
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
4,4'-oxydianiline and its salts	101-80-4	202-977-0
4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6
4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
Biphenyl-4-ylamine	92-67-1	202-177-1
o-aminoazotoluene	97-56-3	202-591-2
o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0
N-methylacetamide	79-16-3	201-182-6
1-bromopropane	106-94-5	203-445-0

additional list by EU dated 06-13-2013

Cadmium	7440-43-9	231-152-8
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9



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Dipentyl phthalate (DPP)	131-18-0	205-017-9
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]		
Cadmium oxide	1306-19-0	215-146-2

## additional list by EU dated 12-16-2013

Cadmium sulphide	1306-23-6	215-147-8
Dihexyl phthalate	84-75-3	201-559-5
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
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	217-710-3
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9
Lead di(acetate)	301-04-2	206-104-4
Trixylyl phosphate	25155-23-1	246-677-8

## additional list by EU dated 06-16-2014

Cadmium Chloride	10108-64-2	233-296-7
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
Sodium peroxometaborate	7632-04-4	231-556-4
Trixylyl phosphate	25155-23-1	246-677-8