

# CERTIFICATE OF CONFORMANCE

COC. No.: 140408001

Date: 2014-04-08

**Product:** Chip Resistors

**To:** Customers who concerned

Statement of conformance: This letter is to assure that all product made from YAGEO DO NOT contain the Substances of Very High Concern (SVHC) specified as below.

REACH (SVHC)- 1 Candidate List			
No.	Substance Name	CAS Number	EC Number
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
3	Alkanes, C10-13 chloro (short chain chlorinated paraffins)	85535-84-8	287-476-5
4	Anthracene	120-12-7	204-371-1
5	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
6	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
7	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
8	Cobalt dichloride	7646-79-9	231-589-4
9	Diarsenic pentaoxide	1303-28-2	215-116-9
10	Diarsenic trioxide	1327-53-3	215-481-4
11	Dibutyl phthalate (DBP)	84-74-2	201-557-4
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4 3194-55-6	247-148-4 and 221-695-9
13	Lead hydrogen arsenate	7784-40-9	232-064-2
14	Sodium dichromate	7789-12-0 and 10588-01-9	234-190-3
15	Triethyl arsenate	15606-95-8	427-700-2

# CERTIFICATE OF CONFORMANCE

<b>REACH (SVHC)- 2 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	Anthracene oil	90640-80-5	292-602-7
2	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5
3	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
4	Anthracene oil, anthracene-low	90640-82-7	292-604-8
5	Anthracene oil, anthracene paste	90640-81-6	292-603-2
6	Pitch, coal tar, high temp.	65996-93-2	266-028-2
7	2,4-Dinitrotoluene	121-14-2	204-450-0
8	Diisobutyl phthalate	84-69-5	201-553-2
9	Lead chromate	7758-97-6	231-846-0
10	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
11	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
12	tris (2-chloroethyl) phosphate	115-96-8	204-118-5
13	Acrylamide	79-06-1	201-173-7

<b>REACH (SVHC)- 3 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	Trichloroethylene	79-01-6	201-167-4
2	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4
3	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4
4	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
5	Sodium chromate	7775-11-3	231-889-5
6	Potassium chromate	7789-00-6	232-140-5
7	Ammonium dichromate	7789-09-5	232-143-1
8	Potassium dichromate	7778-50-9	231-906-6

<b>REACH (SVHC)- 4 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	Cobalt(II) sulphate	10124-43-3	233-334-2
2	Cobalt(II) dinitrate	10141-05-6	233-402-1
3	Cobalt(II) carbonate	513-79-1	208-169-4
4	Cobalt(II) diacetate	71-48-7	200-755-8
5	2-Methoxyethanol	109-86-4	203-713-7
6	2-Ethoxyethanol	110-80-5	203-804-1
7	Chromium trioxide	1333-82-0	215-607-8
8	Chromic acid/ Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	7738-94-5 13530-68-2	231-801-5 236-881-5

# CERTIFICATE OF CONFORMANCE

<b>REACH (SVHC)- 5 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	2-Ethoxyethyl acetate	111-15-9	203-839-2
2	Strontium chromate	7789-06-2	232-142-6
3	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
4	Hydrazine	7803-57-8 302-01-2	206-114-9
5	1-Methyl-2-pyrrolidone	872-50-4	212-828-1
6	1,2,3-Trichloropropane	96-18-4	202-486-1
7	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1

<b>REACH (SVHC)- 6 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	Dichromium tris(chromate)	24613-89-6	246-356-2
2	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	234-329-8
3	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
4	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	-
5	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	-
6	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
7	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
8	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
9	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
10	1,2-Dichloroethane	107-06-2	203-458-1
11	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
12	Arsenic acid	7778-39-4	231-901-9
13	Calcium arsenate	7778-44-1	231-904-5
14	Trilead diarsenate	3687-31-8	222-979-5
15	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
16	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9
17	Phenolphthalein	77-09-8	201-004-7
18	Lead azide, Lead diazide	13424-46-9	236-542-1
19	Lead styphnate	15245-44-0	239-290-0
20	Lead dipicrate	6477-64-1	229-335-2

# CERTIFICATE OF CONFORMANCE

<b>REACH (SVHC)- 7 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6
2	1,2-bis(2-methoxyethoxy)ethane; TEGDME; triethylene glycol dimethyl ether	112-49-2	203-977-3
3	1,2-Dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
4	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
5	4,4'-Bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
6	Alpha, alpha-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8
7	Beta-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0
8	C.I. Basic Violet 3; [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	208-953-6
9	Diboron trioxide	1303-86-2	215-125-8
10	Formamide	75-12-7	200-842-0
11	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
12	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
13	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3

# CERTIFICATE OF CONFORMANCE

<b>REACH (SVHC)- 8 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
1	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
2	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
3	Tricosafuorododecanoic acid	307-55-1	206-203-2
4	Henicosafuoroundecanoic acid	2058-94-8	206-803-4
5	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
6	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-
7	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	-	-
8	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
9	Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride(Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	201-604-9 236-086-3 238-009-9
10	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
11	Methoxyacetic acid	625-45-6	210-894-6
12	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
13	Diisopentylphthalate	605-50-5	210-088-4
14	N-pentyl-isopentylphthalate	776297-69-9	-
15	1,2-Diethoxyethane	629-14-1	211-076-1
16	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5
17	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
18	Acetic acid, lead salt, basic	51404-69-4	257-175-3
19	Trilead bis(carbonate)dihydroxide (basic lead carbonate)	1319-46-6	215-290-6
20	Lead oxide sulfate	12036-76-9	234-853-7
21	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
22	Dioxobis(stearato)trilead	12578-12-0	235-702-8
23	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
24	Lead cyanamidate	20837-86-9	244-073-9
25	Lead dinitrate	10099-74-8	233-245-9
26	Lead oxide (lead monoxide)	1317-36-8	215-267-0

# CERTIFICATE OF CONFORMANCE

<b>REACH (SVHC)- 8 Candidate List</b>			
<b>No.</b>	<b>Substance Name</b>	<b>CAS Number</b>	<b>EC Number</b>
27	Lead tetroxide (orange lead)	1314-41-6	215-235-6
28	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
29	Silicic acid, lead salt	11120-22-2	234-363-3
30	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
31	Tetraethyllead	78-00-2	201-075-4
32	Tetralead trioxide sulphate	12202-17-4	235-380-9
33	(II) Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
34	Lead titanium trioxide	12060-00-3	235-038-9
35	Lead titanium zirconium oxide	12626-81-2	235-727-4
36	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
37	Trilead dioxide phosphonate	12141-20-7	235-252-2
38	Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5
39	Furan	110-00-9	203-727-3
40	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2
41	Diethyl sulphate	64-67-5	200-589-6
42	Dimethyl sulphate	77-78-1	201-058-1
43	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
44	Dinoseb	88-85-7	201-861-7
45	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
46	4,4'-oxydianiline and its salts	101-80-4	202-977-0
47	4-Aminoazobenzene	60-09-3	200-453-6
48	4-methyl-m-phenylenediamine (2,4-toluenediamine)	95-80-7	202-453-1
49	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
50	Biphenyl-4-ylamine	92-67-1	202-177-1
51	o-aminoazotoluene	97-56-3	202-591-2
52	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0
53	N-methylacetamide	79-16-3	201-182-6
54	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0

# CERTIFICATE OF CONFORMANCE

REACH (SVHC)- 9 Candidate List			
No.	Substance Name	CAS Number	EC Number
1	Cadmium	7440-43-9	231-152-8
2	Cadmium oxide	1306-19-0	215-146-2
3	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
4	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
5	Dipentyl phthalate (DPP)	131-18-0	205-017-9
6	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]	117-82-8	204-212-6

REACH (SVHC)- 10 Candidate List			
No.	Substance Name	CAS Number	EC Number
1	Cadmium sulphide	1306-23-6	215-147-8
2	Dihexyl phthalate	84-75-3	201-559-5
3	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
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
5	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9
6	Lead di(acetate)	301-04-2	206-104-4
7	Trixylyl phosphate	25155-23-1	246-677-8

REACH (SVHC)- 11 Candidate List			
No.	Substance Name	CAS Number	EC Number
1	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
2	Cadmium chloride	10108-64-2	233-296-7
3	Sodium perborate; Perboric acid, sodium salt	-	239-172-9 234-390-0
4	Sodium peroxometaborate	7632-04-4	231-556-4

2014/04/08

Date

R-Chip Product Manager

Authorized representative title

*Jerry Yeh*

Authorized representative signature