APPLICANT: FANVIL TECHNOLOGY CO., LTD.
ADDRESS: UNIT 4A, BUILDING NO.7, TIAN AN INDUSTRIAL PARK, NANSHAN DISTRICT, SHENZHEN, CHINA

MANUFACTURE : FANVIL TECHNOLOGY CO., LTD.
ADDRESS: UNIT 4A, BUILDING NO.7, TIAN AN INDUSTRIAL PARK, NANSHAN DISTRICT, SHENZHEN, CHINA

Report on the submitted sample said to be IP PHONE BRAND NAME: N/A MODEL: D800

Test Required: 1)As required by client to determine the Lead,Cadmium,Mercury,Chrimium and Bromine content in the submitted sample.

Test Method:

Testing Item	Testing method	Limit
Lead (Pb)	With reference to IEC62321/2nd CDV (111/95/CDV) ICP-OES	1000ppm
Cadmium (Cd)	With reference to IEC62321/2nd CDV (111/95/CDV) ICP-OES	100ppm
Mercury (Hg)	With reference to IEC62321/2nd CDV (111/95/CDV) ICP-OES	1000ppm
Hexavalent Chromium (Cr6+)	With reference to IEC62321/2nd CDV (111/95/CDV) ICP-VIS	1000ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC62321/2nd CDV (111/95/CDV) GC-MS	1000ppm
Polybrominated Diphenylethers (PBDEs)	With reference to IEC62321/2nd CDV (111/95/CDV) GS-MS	1000ppm

Results : Please refer to next pages

Conclusion : When tested as specified,the results shown on the report do not exceed the limit in commission decision of 18 Aug 2005 amending Directive 2002/95/EC (RoHS) notified under document 2005/618/EC&2005/717/EC&2005/747/EC&2006/310/EC&2006/690/EC&2006/691/EC&2006/692/EC&2008/385/EC&2008/35/EC&2009/428/EC&2009/443/EC&2010/122/EU. All data in this report is provided by the manufacture.

Signed for Shenzhen PZD Technology Co.,Ltd.

Mark Yan/ Manager

RESULT SUMMARY

Note:
ND=Not Detected ,less than the value of Detection limit
ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
1	IC AP1534SG	---	---	---	---	---	Declaration
2	PCB	ND	ND	3	ND	ND	Fulfilled
3	FLASH IC	---	---	---	---	---	Declaration
4	MCU IC	---	---	---	---	---	Declaration
5	IC MEDIA	---	---	---	---	---	Declaration
6	IC POWER	---	---	---	---	---	Declaration
7	IC LDO TOREX	---	---	---	---	---	Declaration
8	IC POE POWER	---	---	---	---	---	Declaration
9	OPTICAL COUPLER	ND	ND	ND	ND	ND	Fulfilled
10	IC POWER TLV SERIES	---	---	---	---	---	Declaration
11	IC AMP	---	---	---	---	---	Declaration
12.1	TC/TRANSFORMER-SILICONE RUBBER	ND	ND	ND	ND	ND	Fulfilled
12.2	MAGNETIC WIRE	ND	ND	ND	ND	ND	Fulfilled
12.3	METAL PART	ND	ND	ND	ND	ND	Fulfilled
12.4	CORE	ND	ND	ND	ND	ND	Fulfilled
12.5	SN WIRE	ND	5	55	ND	ND	Fulfilled
13	CRYSTAL	ND	ND	ND	ND	ND	Fulfilled
14	LED	ND	ND	ND	ND	ND	Fulfilled
15.1	SMD DIODE-BODY	ND	ND	78472*	ND	ND	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
15.2	SMD DIODE-PIN	ND	ND	16	ND	---	Fulfilled
16	DIODE	ND	ND	37.7	ND	ND	Fulfilled
17	DIDOE LL34	ND	ND	224200*	ND	ND	Fulfilled
18	ESD PROTECTOR	---	---	---	---	---	Declaration
19	BEAD	ND	ND	ND	ND	ND	Fulfilled
20.1	CEP- PAPER SHEET	ND	ND	ND	ND	ND	Fulfilled
20.2	PLASTIC SHEET	ND	ND	ND	ND	ND	Fulfilled
20.3	RUBBER COVER	ND	ND	24	ND	ND	Fulfilled
20.4	SILVERY METAL SHELL	ND	ND	8	ND	---	Fulfilled
20.5	SILVERY GREY METAL SHEET	ND	ND	13	ND	ND	Fulfilled
20.6	GREY METAL SHEET	ND	ND	ND	ND	ND	Fulfilled
20.7	PIN	ND	ND	8	ND	---	Fulfilled
20.8	BROWN SHEET	ND	ND	ND	ND	ND	Fulfilled
20.9	METAL SHELL WITH BLACK LETTER	ND	ND	20	ND	---	Fulfilled
20.10	BLACK PLASTIC SHEET	ND	ND	ND	ND	ND	Fulfilled
21	ADAPTER JACK	ND	ND	151	ND	---	Fulfilled
22	MLCC	ND	ND	ND	ND	ND	Fulfilled
23	MLCC	ND	ND	ND	ND	ND	Fulfilled
24	MLCC	ND	ND	ND	ND	ND	Fulfilled
25	RESISTOR	ND	ND	668	ND	ND	Fulfilled
26.1	POWER INDUCTOR CD54-CORE	ND	ND	ND	ND	ND	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
26.2	SN WIRE	ND	ND	50	ND	ND	Fulfilled
26.3	VARNISH	ND	ND	ND	ND	ND	Fulfilled
27.1	POWER INDUCTOR RH127 SERIES-EPOXY	ND	ND	ND	ND	ND	Fulfilled
27.2	CORE	ND	ND	ND	ND	ND	Fulfilled
27.3	CORE	ND	ND	ND	ND	ND	Fulfilled
27.4	SN WIRE	ND	ND	50	ND	ND	Fulfilled
27.5	VARNISH	ND	ND	ND	ND	ND	Fulfilled
28.1	TRANSFORMER-MAGNETIC WIRE	ND	ND	ND	ND	ND	Fulfilled
28.2	BOBBIN	ND	ND	8	ND	---	Fulfilled
28.3	CORE	ND	ND	ND	ND	ND	Fulfilled
28.4	TAPE	ND	ND	20	ND	---	Fulfilled
28.5	SN WIRE	ND	ND	ND	ND	ND	Fulfilled
29.1	NETWORK CABLE-COPPER WIRE	ND	ND	ND	ND	ND	Fulfilled
29.2	PLUG	ND	ND	ND	ND	ND	Fulfilled
29.3	PVC PLASTIC	ND	ND	ND	ND	ND	Fulfilled
29.4	COPPER CONTACT	ND	ND	12	ND	ND	Fulfilled
30	MOSFET AND TRANSISTOR	ND	ND	ND	ND	ND	Fulfilled
31	CONNECTOR PIN	ND	ND	37	ND	---	Fulfilled
32	SD CARD CONNECTOR	ND	ND	63max	ND	ND	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
Ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
33.1	RJ45 AND RJ9 CONNECTOR-PBT	ND	ND	ND	ND	ND	Fulfilled
33.2	COPPER	ND	ND	9	ND	---	Fulfilled
33.3	GOLD WIRE	ND	ND	ND	ND	ND	Fulfilled
34	EAR JACK	ND	ND	151	ND	---	Fulfilled
35.1	USB AND HDMI CONNECTOR-METAL	ND	ND	246	ND	---	Fulfilled
35.2	USB AND HDMI CONNECTOR-COPPER	ND	ND	26	ND	---	Fulfilled
36.1	FPC CONNECTOR-WHITE PLASTIC	ND	ND	6	ND	ND	Fulfilled
36.2	DK-BROWN PLASTIC	ND	ND	6	ND	ND	Fulfilled
36.3	SILVERY METAL	ND	ND	23	ND	---	Fulfilled
37.1	PH2.54 CONNECTOR-ABS PLASTIC	ND	ND	ND	ND	ND	Declaration
37.2	H53 BRASS PLATE	ND	ND	246	ND	---	Fulfilled
37.3	PIN	ND	ND	37	ND	---	Fulfilled
38	MAIN PCB	ND	ND	3	ND	ND	Fulfilled
39	ABS PLASTIC PA757	ND	ND	ND	ND	ND	Fulfilled
40	ABS PLASTIC PC-110	ND	ND	ND	ND	ND	Fulfilled
41.1	616E-ABS PLASTIC	ND	ND	ND	ND	ND	Fulfilled
41.2	WIRE	ND	ND	14	ND	---	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
Ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
41.3	PVC PLASTIC BLACK	ND	ND	ND	ND	ND	Fulfilled
41.4	PVC PLASTIC RED	ND	ND	ND	ND	ND	Fulfilled
41.5	H52 BRASS PLATE	ND	ND	346	ND	---	Fulfilled
42	MIC	ND	ND	24	ND	ND	Fulfilled
43	SPONGE	ND	ND	8	ND	ND	Fulfilled
44	RECEIVER	ND	ND	ND	ND	ND	Fulfilled
45	PAD OF RECEIVER	ND	ND	ND	ND	ND	Fulfilled
46	DUST NET	---	---	---	---	---	Declaration
47	METAL BLOCK	ND	ND	ND	ND	---	Fulfilled
48	SCREW	ND	ND	ND	ND	---	Fulfilled
49	LCD PANEL	---	---	---	---	---	Declaration
50	TOUCH PANEL	ND	ND	ND	ND	ND	Fulfilled
51.1	CAMERA-LENS	ND	ND	ND	ND	ND	Fulfilled
51.2	FPC	ND	ND	ND	ND	ND	Fulfilled
51.3	TLF-204-111	ND	ND	315	ND	ND	Fulfilled
52	SPEAKER	ND	ND	ND	ND	ND	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
Ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
49.3	HANDSET SPRING-COPPER SHEET	ND	ND	9	ND	---	Fulfilled
53.1	FPC CABLE-FILM	ND	ND	10	ND	ND	Fulfilled
53.2	FILM WITH PRINTING	ND	ND	ND	ND	ND	Fulfilled
53.3	BLUE TAPE	ND	ND	ND	ND	ND	Fulfilled
53.4	METAL WIRE	ND	ND	7	ND	---	Fulfilled
54	PET PROTECT FILM	ND	ND	ND	ND	ND	Fulfilled
55	PMMA	ND	ND	ND	ND	ND	Fulfilled
56	MARKING LABEL	ND	ND	ND	ND	ND	Fulfilled
57	ADAPTER	---	---	---	---	---	Fulfilled
58.1	HANDSET WIRE-PVC PLASTIC	ND	ND	ND	ND	ND	Fulfilled
58.2	COPPER	ND	ND	ND	ND	---	Fulfilled
59	MANUAL PAPER	ND	ND	ND	ND	ND	Fulfilled
60	PACKAGE BAG	ND	ND	ND	ND	ND	Fulfilled
61.1	PACKAGE BOX-PAPER BOARD	ND	ND	ND	ND	ND	Fulfilled
61.2	INK	ND	ND	ND	ND	ND	Fulfilled
61.3	INK (RED,YELLOW,BLUE,BLCAK)	ND	ND	ND	ND	ND	Fulfilled

Note:
ND=Not Detected ,less than the value of Detection limit
Ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
62	PROTECT FILM FOR LCD	ND	ND	ND	ND	ND	Fulfilled
63	RESISTOR	ND	ND	668	ND	ND	Fulfilled
64	KEY PCB	ND	ND	8	ND	ND	Fulfilled
65.1	LILLTLE MODULE-BACKLIGHT AND POWER	---	---	---	---	---	Declaration
65.2	MLCC Y5V	ND	ND	ND	ND	ND	Fulfilled
65.3	RESISTOR	ND	ND	668	ND	ND	Fulfilled
65.4.1	FPC CONNECTOR-WHITE PLASTIC	ND	ND	6	ND	ND	Fulfilled
65.4.2	DK-BROWN PLASTIC	ND	ND	6	ND	ND	Fulfilled
65.4.3	SILVERY METAL	ND	ND	23	ND	---	Fulfilled
65.5	DIODE	ND	ND	37.7	ND	ND	Fulfilled
65.6	DIODE BAV99	ND	ND	ND	ND	ND	Fulfilled
65.7	LL34 DIODE	ND	ND	224200*	ND	ND	Fulfilled
65.8.1	POWER INDUCTOR-CORE	ND	ND	ND	ND	ND	Fulfilled
65.8.2	EPOXY	ND	ND	7	ND	ND	Fulfilled
65.8.3	SN WIRE	ND	ND	50	ND	ND	Fulfilled
65.8.4	VARNISH	ND	ND	ND	ND	ND	Fulfilled

*Remark<1>: According to the declaration from client, the source of Lead in specimen 1 could be from the glass material of that cathode ray tubes which is exempted by RoHS regulatory (Directive 2002/95/EC of the European parliament and of The council of 27 January 2003)

Remark
1. Refer to client information from DECLARATION LETTER
2. Refer to client information SGS:CANEC1101334308
3. Refer to client information from DECLARATION LETTER
4 Refer to client information from DECLARATION LETTER
5 Refer to client information from DECLARATION LETTER
6 Refer to client information from DECLARATION LETTER
7 Refer to client information from DECLARATION LETTER
8 Refer to client information from DECLARATION LETTER
9 Refer to client information SGS:CE/2011/B3548
10 Refer to client information from ON SEMICONDUCTOR DECLARATION LETTER
11 Refer to client information from NATIONAL DECLARATION LETTER
12.1 Refer to client information ITS:TWNC00215211
12.2 Refer to client information SGS:GZ1102012117/CHEM
12.3 Refer to client information CTI:RLSZD00083749
12.4 Refer to client information CTI:RLSZC000730750002C
12.5 Refer to client information SGS:GZ1010123000/CHEM 55
13 Refer to client information SGS:CANEC1110991605
14 Refer to client information SGS:CE/2011/70009
15. Refer to client information SGS:CANEC0906214109
16 Refer to client information SGS:CE/2011/93472
17 Refer to client information CTI:RLSZD000857290006
18 Refer to client information from DECLARATION LETTER
19 Refer to client information SGS:CE/2011/B2759
20 Refer to client information SGS:CANEC1112135201
21 Refer to client information CTI:RLSZD000849530002
22. Refer to client information SGS:CANEC1110605101

23.Refer to client information SGS:CANEC1110605105
24.Refer to client information SGS:CANEC1110605104
25.Refer to client information SGS:CANEC1102192901
26.1 Refer to client information CTI:RLSZD000793730001
26.2 Refer to client information SGS:CANEC1111088220
26.3 Refer to client information SGS:CE/2011/45621A
27.1 Refer to client information SGS:CANEC1100043507
27.2 Refer to client information CTI:RLSZD000805800001
27.3 Refer to client information CTI:RLSZD000793730001
27.4 Refer to client information SGS:CANEC1111088220
27.5 Refer to client information SGS:CE/2011/45621A
28.1 Refer to client information SGS:CANEC1103514901
28.2 Refer to client information SGS:CANEC1100755701
28.3 Refer to client information SGS:SHAEC1102191201
28.4 Refer to client information CTI:RLSHD000743510001
28.5 Refer to client information SGS:GZ1102013749/CHEM
29.1Refer to client information SGS:GZ1103025554/CHEM
29.2 Refer to client information SGS:CE/2012/30567B
29.3 Refer to client information CTI:RLSDD000094790003
29.4 Refer to client information SGS: CE/2012/30602B
30 Refer to client information SGS:SHAEC1104701505
31 Refer to client information SGS:CANEC1111180403
32 Refer to client information HONGCAI:SZC11101280423-3
33.1 Refer to client information SGS:CANEC1100504605
33.2 Refer to client information SGS:CANEC1003851902
33.3 Refer to client information SGS:SHAEC1018875501

34.Refer to client information CTI:RLSZD000849530002
35.1 Refer to client information SGS:SHAEC1102754805
35.2 Refer to client information SGS:CANEC1103616502
36.Refer to client information SGS:CANEC1102359101
37.1 Refer to client information CTI:RLSZD000901720001
37.2 Refer to client information SGS:SHAEC1102754805
37.3 Refer to client information SGS:CANEC1111180403
38 Refer to client information SGS:CANEC1101334308
39 Refer to client information SGS:KA/2011/C1706
40 Refer to client information SGS:KA/2011/C1777
41.1 Refer to client information CTI:RLSZD000901720001
41.2 Refer to client information SGS:CANML1111535001
41.3 Refer to client information SGS:GZ1110130454/CHEM
41.4 Refer to client information SGS:CANEC1110204416
41.5 Refer to client information SGS:SHAEC1102754805
42 Refer to client information SGS:CE/2011/22177
43 Refer to client information SGS:GZ1103018611/CHEM
44 Refer to client information SGS:GZ1104044952/CHEM
45 Refer to client information SGS:GZ1103018609/CHEM
46 Refer to client information from DECLARATION LETTER
47 Refer to client information SGS:CANEC0905103201
48 Refer to client information SGS:CANEC0802051302
49 Refer to client information from DECLARATION LETTER
50 Refer to client information CTI:RLSZC00058315C
51.1 Refer to client information SGS:GZ110816760/CHEM
51.2 Refer to client information CTI:RLSZD000993890002C

51.3 Refer to client information SGS:CE/2011/62813
52 Refer to client information SGS:GZ1104044948/CHEM
53 Refer to client information SGS:CANEC1102281001
54 Refer to client information SGS:CANEC1103361102
55 Refer to client information SGS:SHAEC1200148401
56 Refer to client information SGS:SCATR1103000231
57 Refer to client information SGS:GZ1108112408/CHEM
58.1 Refer to client information PONY:E12193012704D
58.2 Refer to client information PONY:E12193012904D
59 Refer to client information SGS:SHAEC1101620904
60 Refer to client information AOV:A001C120210015001-1
61.1 Refer to client information SGS:GZ1011135401/CHEM
61.2 Refer to client information SGS:GZ1103033406/CHEM
61.3 Refer to client information SGS:GZ1103033412/CHEM
62 Refer to client information SGS:GZ1103018609/CHEM
63 Refer to client information SGS:CANEC1102192901
64 Refer to client information SGS:CANEC1101334301
65.1 Refer to client information from MPS DECLARATION LETTER
65.2 Refer to client information SGS:CANEC1110605104
65.3 Refer to client information SGS:CANEC1102192901
65.4 Refer to client information SGS:CANEC1102359101
65.5 Refer to client information SGS:CE/2011/93472
65.6 Refer to client information SGS:SHAEC1104701505
65.7 Refer to client information CTI:RLSZD000857290006
65.8.1 Refer to client information SGS:CANEC1101185901
65.8.2 Refer to client information SGS:CANEC1100321401

65.8.3 Refer to client information SGS:CANEC1111088220 A01
65.8.4 Refer to client information SGS:CE/2011/45621A

APPENDIX I

DECLARATION LETTER FROM DIODES

Corporate Address: 4949 Hedgcoxe Road, Suite 110, Plano, TX 75024, USA

Re: **End of Vehicle Life Directive (EVL) 2000/53/EC and Annex II (EVL II) 2000/53/EC**
Restrictions of Hazardous Substances Directive (RoHS) 2002/95/EC & 2011/65/EU
Waste Electrical and Electronic Equipment (WEEE)
REACH (EC) No 1907/2006
Japanese Legislation (Various)
China RoHS
California Proposition 65

Diodes Inc. and its subsidiaries including Diodes Zetex Semiconductors Limited have reviewed our manufacturing process and materials along with those of our contractors and suppliers against the above referenced directives.

We hereby declare that all of our products comply fully with the above directives and do not contain any of the following substances except as CURRENTLY exempted* by ELV II and RoHS II:

Asbestos
Azo compounds (Azocolourants and Azodyes)
Cadmium and cadmium compounds CAS No 7440-43-9, EC No 231-152-8
Certain Shortchain Chlorinated Paraffins
Chlorinated organic compounds
Dimethyl fumarate
Hexavalent chromium compounds (Chromium VI compounds)
Lead and lead compounds
Mercury and mercury compounds
Organic tin compounds
Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)
Ozone Depleting Substances - Class II (HCFCs)
Perfluoroctane Sulphonate (PFOS)
Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) including **DecaBDE**
Polychlorinated Biphenyls (PCBs)
Polychlorinated Naphthalenes (> 3 chlorine atoms)
Polychlorinated Terphenyls (PCTs)
Radioactive Substances
Red Phosphorous
Tributyl Tin (TBT) and Triphenyl Tin (TPT), Dibutyltin (DBT) compounds, Dioctyltin (DOT) compounds
Tributyl Tin Oxide (TBTO)

Our products have never contained PFOS or DecaBDE compounds and no exemptions for these have ever been taken.

REACH SVHCs (in addition to those listed above) (All product versions are REACH Compliant - No SVHCs are present)

Substance name	CAS number	EC Number
Anthracene	120-12-7	204-371-1
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4
Dibutyl phthalate	84-74-2	201-557-4
Chloroethene (vinyl chloride)	75-01-4	200-831-0
Cyclododecane	294-62-2	206-033-9
Cobalt dichloride	7646-79-9	231-589-4
Diarsenic pentaoxide	1303-28-2	215-116-9
Diarsenic trioxide	1327-53-3	215-481-4
Sodium dichromate, dihydrate	7789-12-0	
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
Hexabromocyclododecane (HBCDD)	25637-99-4	247-148-4
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
Bis(tributyltin)oxide	56-35-9	200-268-0
Lead hydrogen arsenate	7784-40-9	232-064-2
Triethyl arsenate	15606-95-8	427-700-2
Benzyl butyl phthalate	85-68-7	201-622-7

Diodes Incorporated
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REACH ANNEX XVII (including amendments) Substances (All products versions do not contain these substances)

Substance name	CAS number	EC Number
Tris (2,3 dibromopropyl) phosphate	126-72-7	
Benzene	71-43-2	200-753-7
Asbestos fibres	Multiple, See 2009/552/EC Annex XVII	
Tris(aziridinyl)phosphinoxide	545-55-1	208-892-5
Soap bark powder	68990-67-0	273-620-4
Powder of the roots of Helleborus viridis and Helleborus niger		
Powder of the roots of Veratrum album and Veratrum nigrum		
Benzidine and/or its derivatives	92-87-5	202-199-1
o-Nitrobenzaldehyde	552-89-6	209-025-3
Wood powder		
Ammonium sulphide	12135-76-1	235-223-4
Ammonium hydrogen sulphide	12124-99-1	235-184-3
Ammonium polysulphide	9080-17-5	232-989-1
Methyl bromoacetate	96-32-2	202-499-2
Ethyl bromoacetate	105-36-2	203-290-9
Propyl bromoacetate	35223-80-4	
Butyl bromoacetate	18991-98-5	242-729-9
2-Naphthylamine and its salts	91-59-8	202-080-4
Benzidine and its salts	92-87-5	202-199-1
4-Nitrobiphenyl	92-93-3	202-204-7
4-Aminobiphenyl xenylamine and its salts	92-67-1	202-177-1
Neutral anhydrous carbonate ($PbCO_3$)	598-63-0	209-943-4
Trilead-bis(carbonate)-dihydroxide $2PbCO_3$-$Pb(OH)_2$	1319-46-6	215-290-6
$PbSO_4$	7446-14-2	231-198-9
$PbxSO_4$	15739-80-7	239-831-0
Arsenic compounds in defined uses		
Organostannic compounds (including those listed in entry 2 of COMMISSION REGULATION (EU) No 276/2010 of 31 March 2010)		
Di-µ-oxo-di-n-butylstanniohydrox-yborane/Dibutyltin – Hydrogen borate $C_8H_{19}BO_3Sn$ (DBB)	75113-37-0	401-040-5
Pentachlorophenol and its salts and esters	87-86-5	201-778-6
Monomethyl — tetrachlorodi-phenyl methane Trade name: Ugilec 141	76253-60-6	
Monomethyl-dibromo-diphenyl methane bromobenzylbromo-toluene, mixture of isomers Trade name: DBBT	99688-47-8	
Nickel (external use where contact with skin can be made)	7440-02-0	231-111-4
Creosote; wash oil	8001-58-9	232-287-5
Creosote oil; wash oil	61789-28-4	263-047-8
Distillates (coal tar), naphthalene oils; naphthalene oil	84650-04-4	283-484-8
Creosote oil, acenaphthene fraction; wash oil	90640-84-9	283-484-8 and 292-605-3
Distillates (coal tar), upper; heavy anthracene oil	65996-91-0	266-026-1
Anthracene oil	90640-80-5	292-602-7
Tar acids, coal, crude; crude phenols	65996-85-2	266-019-3
Creosote, wood	8021-39-4	232-419-1
Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	122384-78-5	310-191-5
Chloroform	67-66-3	200-663-8
1,1,2-Trichloroethane	79-00-5	201-166-9
1,1,2,2-Tetrachloroethane	79-34-5	201-197-8
1,1,1,2-Tetrachloroethane	630-20-6	
Pentachloroethane	76-01-7	200-925-1
1,1-Dichloroethene	75-35-4	200-864-0
Hexachloroethane	67-72-1	200-666-4
Alkanes, C_{10}-C_{13}, chloro (short- chain chlorinated paraffins) (SCCPs)	85535-84-8	287-476-5
Diphenylether, pentabromo derivative $C_{12}H_5Br_5O$		
Diphenylether, octabromo derivative $C_{12}H_2Br_8O$		
Nonylphenol $C_6H_4(OH)C_9H_{19}$	25154-52-3	246-672-0

REACH ANNEX XVII (including amendments) Substances (All products versions do not contain these substances) (Continued)

Substance name	CAS number	EC Number
Nonylphenol ethoxylates $(C_2H_4O)_nC_{15}H_{24}O$		
Toluene	108-88-3	203-625-9
Trichlorobenzene	120-82-1	204-428-0
Polycyclic-aromatic hydrocarbons (PAH)(a) Benzo[a]pyrene (BaP)	50-32-8	
Benzo[e]pyrene (BeP)	192-97-2	
Benzo[a]anthracene (BaA)	56-55-3	
Chrysen (CHR)	218-01-9	
Benzo[b]fluoranthene (BbFA)	205-99-2	
Benzo[j]fluoranthene (BjFA)	205-82-3	
Benzo[k]fluoranthene (BkFA)	207-08-9	
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
Dibutyl phthalate (DBP)	84-74-2	201-557-4
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Di-"isononyl" phthalate (DINP)	28553-12-0 and 68515-48-0	249-079-5 and 271-090-9
Di-"isodecyl" phthalate (DIDP)	26761-40-0 and 68515-49-1	247-977-1 and 271-091-4
Di-n-octyl phthalate (DNOP)	117-84-0	204-214-7
2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	203-906-6
2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	203-961-6
Methylenediphenyl diisocyanate (MDI)	26447-40-5	247-714-0
Cyclohexane	110-82-7	203-806-2
Ammonium nitrate (AN)	6484-52-2	229-347-8
Dichloromethane	75-09-2	200-838-9

REACH ECHA/PR/09/15 Updates of January 2010 All products versions do not contain these substances)

Substance name	CAS number	EC Number
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Pitch, coal tar, high temp.	266-028-2	65996-93-2
Acrylamide	201-173-7	79-06-1
Aluminosilicate Refractory Ceramic		
Zirconia Aluminosilicate, Refractory Ceramic Fibres		
2,4-Dinitrotoluene	204-450-0	121-14-2
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
tris(2-chloroethyl)phosphate	204-118-5	115-96-8

Perfluorooctane sulfonates (PFOS) C8F17SO2X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)

Substances meeting the criteria of flammability in Directive 67/548/ EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows:

— Carcinogen category 1A (Table 3.1)/carcinogen category 1 (Table 3.2) listed in Appendix 1
— Carcinogen category 1B (Table 3.1)/carcinogen category 2 (Table 3.2) listed in Appendix 2

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as follows:

— Mutagen category 1A (Table 3.1)/mutagen category 1 (Table 3.2) listed in Appendix 3
— Mutagen category 1B (Table 3.1)/mutagen category 2 (Table 3.2) listed in Appendix 4

REACH ECHA/PR/09/15 Updates of January 2010 (Continued)

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:

- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5
- Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6

Substances or mixtures, which are regarded as dangerous according to the definitions in European Union Directives 67/548/EEC and 1999/45/EC.

REACH Updates ED/30/2010 of June 2010 (All product versions are REACH Compliant - No SVHCs present)

Substance name	CAS Number	EC Number
Trichloroethylene	79-01-6	201-167-4
Boric acid	10043-35-3	233-139-2
	11113-50-1	234-343-4
Disodium tetraborate, anhydrous	1303-96-4	215-540-4
	1330-43-4	
	12179-04-3	
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Potassium dichromate	7778-50-9	231-906-6
Ammonium dichromate	7789-09-5	232-143-1
Potassium chromate	7789-00-6	232-140-5
Sodium chromate	7775-11-3	231-889-5

REACH Updates ED/95/2010 of December 2010 (All product versions are REACH Compliant - No SVHCs present)

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

REACH Updates ED/31/2011 of June 2011 (All product versions are REACH Compliant - No SVHCs present)

Substance name	CAS Number	EC Number
Cobalt dichloride	7646-79-9	231-589-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
1,2,3-Trichloropropane	96-18-4	202-486-1
1-Methyl-2-pyrrolidone	872-50-4	212-828-1
Hydrazine	302-01-2 / 7803-57-8	206-114-9
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
Strontium chromate	7789-06-2	232-142-6
2-Ethoxyethyl acetate	111-15-9	203-839-2

REACH Updates ED/77/2011 of December 2011 (All product versions are REACH Compliant - No SVHCs present)

Substance name	CAS Number	EC Number
1,2-Dichloroethane	107-06-2	203-458-1
2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
4-(1,1,3,3-Tetramethylbutyl) phenol; 4-tert-octyl phenol	140-66-9	205-426-2
Aluminosilicate Refractory Ceramic Fibres	-	-
Arsenic acid	7778-39-4	231-901-9
Bis(2-methoxyethyl) ether	111-96-6	203-924-4
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
Calcium arsenate	7778-44-1	231-904-5
Dichromium tris(chromate)	24613-89-6	246-356-2
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
Lead diazide, Lead azide	13424-46-9	236-542-1
Lead dipicrate	6477-64-1	229-335-2
Lead styphnate	15245-44-0	239-290-0
N,N-dimethylacetamide	127-19-5	204-826-4
Pentazinc chromate octahydroxide	49663-84-5	256-418-0
Phenolphthalein	77-09-8	201-004-7
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
Trilead diarsenate	3687-31-8	222-979-5
Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-

U.S. Department of Labor Federal Standard 29 – CFR Part 1910.1000 and other Substances:

Our products do not contain the following substances (in addition to those stated above):

Substance name	CAS Number
4-Nitrobiphenyl	92-93-3
alpha-Naphthylamine	134-32-7
methyl chloromethyl ether	107-30-2
3,3'-Dichlorobenzidine (and its salts)	91-94-1
bis-Chloromethyl ether	542-88-1
beta-Naphthylamine	91-59-8
Benzidine	92-87-5
4-Aminodiphenyl	92-67-1
Ethyleneimine	151-56-4
beta-Propiolactone	57-57-8
2-Acetylaminofluorene	53-96-3
4-Dimethylaminoazo-benzene	60-11-7
N-Nitrosodimethylamine	62-75-9.

- Columbite-tantalite, cassiterite or wolframite or derivatives

GADSL: (Global Automotive Declarable Substance List)

Diodes Incorporated's products may contain permutations of the following substances:

Arsenic: Is used as a dopant in the "chip" or "die".
Antimony Trioxide: Is used as a part of the flame retardant system in non-green product.
Copper: Some products use copper in the leadframe alloy, some others have a copper-plated Alloy 42 leadframe. Copper is increasingly being used internally in product to form connections between the die and the leadframe.
Lead: Some products have a high temperature solder die attach >85% lead, some have lead in the die passivation or the glass encapsulation, others have lead in the copper leadframe alloy. All of these applications are exempted from RoHS.

Rare Earth Metals:

Our products do not contain:

Scandium, Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium, Ruthenium.

Japanese Laws:

No. 117, 1973, as last amended by Law No.49, 2003. Our products do not contain:

- N,N'> -ditoryl-para-phenylenediamine>
- N-tolyl-N'> -xylyl-para-phenylenediamine
- N> '> -dixyl-paraphenyllenediamine (CAS # 15017-02-4)

No. 32 of September 30, 1972 and Ministry of Health, Labour and Welfare Ordinance No. 47 of March 30, 2007 from the Japan International Center for Occupational Safety and Health. Our products do not contain:

- Mirex > -> CAS # 2385-85-5
- Benzidine and its salts CAS numbers 531-85-1, 92-87-5, 531-86-2
- Benzene paste (benzene 5% or more)

No. 138 of 1970, Water Pollution Control Law, Latest Amendment by Law No. 75 of 1995. Our products do not contain:

- Cyanogen compounds

California Proposition 65

Certain Diodes Inc. products contain lead and/or nickel. These are wholly contained within the devices.

"Green" or **"halogen-free"** product is defined as:

RoHS and REACH Compliant
Bromine <900ppm, Chlorine <900ppm, Bromine+Chlorine <1500ppm, Antimony Compounds <1000ppm.

* **The following <u>applicable exemptions</u> are currently outlined in EVL II and RoHS II:**

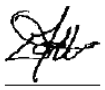
Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)
(Some Diodes Inc. products use this type of solder internally for die attach purposes)

Aluminium containing up to 0,4 % lead by weight,
Copper alloy containing up to 4 % lead by weight

Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
(Some Diodes Inc. products contain glass passivation at the die level and glass packages contain PbO in the glass)

RoHS exemptions are to be reviewed and may be subject to change at least every four years. Renewal of Exemptions is expected where no viable alternative material is available.

Our products may contain traces of any substance not purposely added and below reporting or detection levels.



David Fitton
Compliance Coordinator

Date: 1 March 2012

Diodes Incorporated
4949 Hedgcoxe Road, Suite 110, Plano, TX 75024, USA
Tel: 972 987 3900

Diodes Zetex Semiconductors Limited
Chadderton, Oldham, OL9 9LL United Kingdom
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Diodes Inc. Taiwan
Hsin-Tien, Taipei, Taiwan, R.O.C.
Tel: 011-886-2-8914-6000
Fax: 011-886-2-8914-6639

DECLARATION LETTER FROM HYNIX

Hynix Semiconductor Inc.	Process Change Notification	PCN # : H-08-0ALL-AL-P-008 Date : June.24, 2008
1. Customer : All Customers	2. Product : All Products satisfied with Halogen Free & RoHS Compliance	
3. Name of Change : Demonstration of Halogen Free & RoHS Compliance logo on packing label		
4. Description of Changes	5. Purpose of Changes	
•Demonstrate Halogen Free & RoHS Compliance logo •Halogen Free & RoHS Compliance logo attaches on Inner and outer packing box label •Logo means that Hynix manage all products below threshold for Halogen (Br, Cl) and RoHS substances (Pb, Cd, Hg, Cr^{6+}, PBB, PBDE) •Detail informations of changes are followed by.	•Hynix Product comply with Halogen Free & RoHS Regulation and declare the will of continuous Green Product Policy •The summary of Halogen Free & RoHS Compliance is on next page.	
6. Expected Implementation Date	7. Evaluation Results & Schedule : Appendix (No, Yes)	
Effective Date : 4th Week of July (Week 30), 2008 on the basis of manufacturing date		
Remarks : ▪There will be used two label on packig box from 4th Week of July (Week 30), 2008. The new logo will be used Halogen Free & RoHS Compliance production and the current logo will be used continuously only RoHS Compliance production. •There will be no problem for your applications and no differences for characteristics and quality due to change as before.		

QRA Confidential hynix

A1. Green Product Logos on Packing Box

The New Logo (Halogen Free & RoHS Compliance)	The Current Logo (RoHS Compliance)
ECO RoHS Compliance Halogen Free	ECO RoHS Compliance
❖ The Logo means RoHS compliance and Halogen Free production ❖ The Logo is attached on inner and outer packing box label of Module and Component production	❖ The Logo means RoHS compliance production ❖ The Logo is attached on inner and outer packing box label of Module and Component production

QRA Confidential hynix

DECLARATION LETTER FROM BROADCOM

RoHS EU Directive Compliance

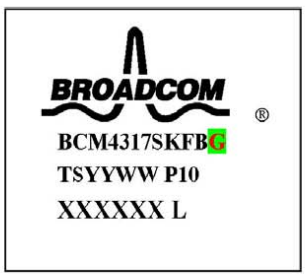
Section 21.0

The European Union (EU) has adopted a new directive 2002/95/EC, the Restriction of Hazardous Substances ("RoHS Directive"), which will restrict the use of certain substances, including lead (Pb), in electrical and electronic products. The directive applies to all such electrical and electronic products and their component parts that will be placed on the market after July 1, 2006. In addition to lead, the directive restricts the use of mercury, cadmium, hexavalent chromium, and certain halide-containing flame retardants.

Broadcom Lead free parts are compliant to EU Restriction of Hazardous Substance (RoHS) Directive 2002/95/EC. The Lead-free package option is available today. Lead-free parts will have a letter 'G' added to the top line of the part marking. See example below

Broadcom standard (non "G") parts are compliant to 5/6 RoHS substances, exception being Pb.

Hg - Mercury Cd - Cadmium Cr+6 - Hexavalent Chromium PBB - Polybrominated Biphenyl PBDE - Polybrominated Diphenylether.



RoHS Compliant Part Marking

DECLARATION LETTER FROM TOREX

TOREX

Torex...Powerfully Small!

TOREX Semiconductor Ltd.
Sakura Nihonbashi Bldg. 8F
1-13-12, Nihonbashi, Kayabacho
Chuo-Ku, Tokyo 103-0025
Japan
Phone: +81-3-5652-8725
Fax: +81-3-5652-8731
http://www.torex.co.jp

Certificate of EU RoHS Compliance

We hereby assure that all products from TOREX do not intentionally contain any of the RoHS-referred substances listed below (except for exempted applications by the directive).

- Cadmium
- Lead
- Mercury
- Hexavalent chromium
- PBB
- PBDE

For any inquiries regarding this issue, please contact our sales dept.

Takara Yoshida
Director, Quality Assurance Dept.

DECLARATION LETTER SILICONLABS

Certificate of RoHS Compliance

March 19, 2012

Silicon Laboratories certifies that the device listed below is compliant with the European Union Directive 2002/95/EC for the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

SI32176-B-FM1

No Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB or PBDE is intentionally added to this device. Any trace impurities of these substances contained in the part are below the RoHS specified threshold levels:

Cr+6, Hg, Pb, PBB's, PBDE's < 1000ppm
Cd < 100ppm

All information provided in this Certificate of Compliance is accurate, to the best of our knowledge, as of the date this certification was issued.

Sandeep P. Kumar
Vice President of Quality and Operations Engineering

400 W. Cesar Chavez St.
Austin, Texas 78701
Phone (512) 416-8500
Fax (512) 416-9669
www.silabs.com

DECLARATION LETTER FROM ON SEMICONDUCTOR

ON Semiconductor										
Base Part		TLV431A							4/24/2012	
Orderable Part		TLV431ASNT1G			Total weight (mg)		14	HF	Pb-free	
Homogenous Material	Weight (mg)	Substance in Mat.	% Avg. Weight	CAS #	Homogenous Material	Weight (mg)	Substance in Mat.	% Avg. Weight	CAS #	
Mold Compound	5.3	Othro Cresol Novalac Resin		n/a	Die	0.14	Si	100	7440-21-3	
		Phenolic Resin		n/a	Wire Bond	0.08				
		Brominated epoxy resin		n/a			Au	100	7440-57-5	
		Antimony compounds (Sb) (Antimony trioxide/pentoxide)		1309-64-4			Cu		7440-50-8	
		Silica	89.5	60676-86-0			Al		7429-90-5	
		Epoxy + Phenol Resin	10.5	n/a	Heatsink/ Heat spreader					
		Bisphenol A, Epichlorhydrin polymer		90598-46-2 25068-38-6			Al		7429-90-5	
		AlHydroxide		21645-51-2			Cu		7440-50-8	
Leadframe	7.69						Fe		7439-89-6	
		Cu	96.6	7440-50-8			P		7723-14-0	
		Fe	2.6	7439-89-6			Zn		7440-66-6	
		Ni		7440-02-0	Ceramic Substrate					
		Ag	0.4	7440-22-4			Aluminum Oxide		1344-28-1	
		Zn	0.2	7440-66-6			Silicon dioxide		7631-86-9	
		Pd		7440-05-3			Magnesium Oxide		1309-48-4	
		Mo		7439-98-7			Titanium Oxide		13463-67-7	
		Au		7440-57-5			Chromium Oxide		1308-38-9	
		Cr		7440-47-3			Tungsten		7440-33-7	
		Mg		7439-95-4			Molybdenum		7439-98-7	
		P		7723-14-0			Cu		7440-50-8	
		Sn		7440-31-5			Ni		7440-02-0	
		Si		7440-21-3			Cobalt		7440-48-4	
Die Attach	0.49						Silver		7440-22-4	
		Sb		7440-36-0			Iron		7439-89-6	
		Pb		7439-92-1			Au		7440-57-5	
		Ag	75	7440-22-4	Substrate and Solder Mask					
		Sn		7440-31-5			Silica crystalline		14808-60-7	
		In		7440-74-6			Fiber glass		65997-17-3	
		Al Oxide		1344-28-1			Organic Resin (Bismaleimide + Triazine + Epoxy resin)		13676-54-5, 1156-51-0, 29690-82-2, 25068-38-6	
		Epoxy	25	129915-35-1			Br as BFR		68541-56-0	
Glass Attach Epoxy							Inorganic filler		13776-74-4, 7631-86-9, 21645-51-2	
		Bisphenol A, Epichlorhydrin polymer		25068-38-6			Cured Resin of Solder Mask			
		Carbon black		1333-86-4			Inorganic filler of Solder Mask		14807-96-6, 7727-43-7,	
		Filler - SiO2		68611-44-9			Cu		7440-50-8	
		4,4''-Diaminophenyl sulfone (curing agent)		80-08-0			Ni		7440-02-0	
		Additive		1760-24-3 / 2530-83-8			Au		7440-57-5	
Plating	0.3									
		Sn	100	7440-31-5	Glass Lid /Cap		SiO2		7631-86-9	
		Pb		7439-92-1			Al2O2		1344-28-1	
		Ag		7440-22-4			B2O3		1303-86-2	
		Cu		7440-50-8			CaO		1305-78-8	
		Pd		7440-05-3			BaO		1304-28-5	
		Au		7440-57-5	Solder Ball					
		Ni		7440-02-0			Sn		7440-31-5	
							Pb		7439-92-1	
							Ag		7440-22-4	
							Cu		7440-50-8	

Materials Disclosure Disclaimer: Even though all possible efforts have been made to provide you with the most accurate information, we cannot guarantee to its accuracy since the data has been compiled based on the ranges provided, and some information provided by the subcontractors and raw material suppliers may have been withheld to protect their business proprietary information. Thus this information is provided only as estimates, and do not include trace levels fo dopants and metal materials contained within silicon devices in the finished products. There is no intentional use of Mercury, Hexavalent Chromium, Cadmium, PBB or PBDE (5 of the 6 RoHS banned substances) in this or any of our other products. For further explanation on material composition calculations, please view our Product Chemical Content Brochure at:
http://www.onsemi.com/pub/Collateral/BRD8022-D.PDF

DECLARATION LETTER FROM NATIONAL

Company	DUNS#	URL For Additional Information
National Semiconductor	04-147-2986	http://www.national.com/analog/quality/green

Contact	Title	Phone	Email
Lorena Dudman	Product Stewardship Eng. Mgr	1-408-721-8180	Green.Project@nsc.com

Part Number	MSL Rating	Peak Body Temp C	MaxTime(Sec)	Cycles	Unit Type
LM4673SD NOPB	1	260	40	4	Each

Document Date		Weight (mg)	
10-27-2011	European RoHS Compliant. China RoHS Compliant.	20.74	Does NOT Contain Halogens

Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Leadframe	6.969	Cu	7440-50-8	6.792	974,500	327,546
		Fe	7439-89-6	0.167	24,000	8,054
		Zn	7440-66-6	0.008	1,200	386
		P	7723-14-0	0.002	300	96
Plastic	11.440	SiO2	60676-86-0	10.353	905,000	499,277
		Epoxy Resin	25928-94-3	1.087	95,000	52,421
Chip	1.125	Si	7440-21-3	1.118	994,000	53,916
		Al	7429-90-5	0.007	6,000	338
Ext. LeadFinish	0.444	Sn	7440-31-5	0.444	1,000,000	21,412
Die Attach	0.363	Ag	7440-22-4	0.272	750,000	13,117
		Epoxy Resin	25928-94-3	0.091	250,000	4,389
Wires	0.269	Au or Cu	7440-57-5	0.269	1,000,000	12,973
Int. LeadFinish	0.126	Ag	7440-22-4	0.126	1,000,000	6,076

Note: The device content disclosed herewith is approximate and is based on engineering estimates only. It has not been verified through analytical testing.

Additionally, the following should be noted:

1. One or more dopant materials may be present in the silicon die at sub-ppm levels to provide semiconductor properties.
2. Epoxy resin components listed are generic and may or may not be the specific compound used, which is considered proprietary.

RoHS Material Composition Declaration

RoHS Directive 2002/95/EC	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB),Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.

1. National products designated "ROHS Compliant" comply with the European Unions Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). Certain National products contain lead in RoHS exempt applications 7(a) or 7(c)-I.
2. National products do not contain and are not manufactured with ozone depleting compounds.
3. National products do not contain substances identified by the European Chemical Agency ("ECHA") as substances of very high concern ("SVHC") per REACH Regulation (EC) No 1907/2006. National also complies with use restrictions as stipulated in Annex XVII of REACH.
4. National products are manufactured in conformance with National specifications (SC)CSP-9-111C1 Supplier Environmental Requirements for Materials and Products and (SC)CSP-9-111S2 Banned and Reportable Substances.
5. National's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.

National has taken commercially reasonable steps to provide representative and accurate information but may not have independently verified information provided or conducted chemical analysis of incoming materials. Equivalent compliant materials may have been substituted for those stated herein. Material concentrations are the maximum expected concentration of the substance in the device and may not represent the actual concentration. National and its suppliers consider certain limited information to be confidential and thus CAS numbers and other limited information may not be available for release. Nationals Standard Terms and Conditions of Sale apply to any issue arising out of or in connection with the information provided herein unless otherwise provided by a written contract signed by both parties.

NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION.

John L Conn
Vice President Quality

John L. Conn
Vice President Quality

National Semiconductor Page 1 of 2

Banned Substance Monitoring

Part Number	Document Date
LM4673SD NOPB	10-27-2011

European RoHS Compliant. China RoHS Compliant.

Item#	Material	Cd	CrVI	Pb	Hg	PBB	PBDE	Cl	Br	Ref#
1	CHIP	<1	<1	<1	<30	<10	<10	<75	<50	1000
2	COMPOUND	<2	<2	<2	<2	<5	<5	<50	<50	643
3	EPOXY	<2	<2	<2	<2	<5	<5	<50	<50	639
4	EXTLF	<2	N/D	23	<2	<5	<5	<50	<50	595
5	FRAME	<2	N/D	7	<2	<5	<5	N/A	N/A	88
6	WIRE	<2	N/D	<2	<2	<5	<5	N/A	N/A	75

* Cd: Cadmium, CrVI: Hexavalent Chromuim, Pb: Lead, Hg: Mercury, NA: Not Applicable

* Unless otherwise noted, units are in PPM (parts-per-million)

Ref#	3rd Party Analysis (available upon request, subject to a non-disclosure agreement)
1000	Analysis on 01/24/2011 by Balazs as per Report# 11-00322-00
643	Analysis on 04/29/2011 by SGS per Report# LPCI/04385(B)/11
639	Analysis on 04/29/2011 by SGS per Report# LPCI/04438(B)/11
595	Analysis on 04/29/2011 by SGS per Report# LPCI/04369(B)/11
88	Analysis on 04/29/2011 by SGS per Report# LPCI/04330(B)/11
75	Analysis on 04/29/2011 by SGS per Report# LPCI/04464(B)/11

DECLARATION LETTER FROM SUNLORD

ROHS Sunlord Electronics 页码，1/1

Sunlord
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提交查询

Ⅰ. HS Overview

Definition

A generic definition of a hazardous substance is provided by the Australian Safety and Compensation Council (ASCC) as "a substance which has the potential, through being used at work, to harm the health or safety of persons in the workplace".

Control of Hazardous Substances

For the purpose of protecting the environment and human health, the Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC; commonly referred to as RoHS) was adopted in 2003 by the European Union. The RoHS directive took effect on 1 July 2006, and is required to be enforced and become law in each member state. This directive restricts the use of six hazardous materials in the manufacture of various types of electronic and Electrical equipment. It is closely linked with the WasteElectrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling targets for electrical goods to solve the problem of huge amount of toxic e-waste.

REACH

There is no doubt that the use of chemicals in all fields speed up the development of human society, however, which also bring about potential influences to human body & the environment, then EU issued "Registration, Evaluation, Authorization and Restriction of Chemicals" in March, 2003 aiming to standardize the application of chemicals.

Increased Hazardous Substances and Enlarged Application Area

More and more hazardous substances, such as halogen are brought under control along with the industry development. Other countries or regions also established a series of regulations to restrict the use of hazardous substances, like Proposition 65 and Chinese RoHS etc. .

CEATEC JAPAN 2011
Date: October 4th-8th, 2011
Location: 2-1, Nakase, Mihama-ku, Chiba-city, 261-0023 Japan
Booth: 6E35

Aerospace
Automotive
Technology
Frequently Asked Questions

Ⅱ. The Links between Our Products and Hazardous Substances

HSF Policy

To protect the only living environment for human, the earth, we declare that the products manufactured by Sunlord comply with the requirements of SONY SS-00259, EU RoHS and related customers.

Sunlord has gained the certificates of Sony GP & QC080000 successfully, and established an effective management system.

 Mail System

News | Products | Privacy Policy | About Sunlord

DECLARATION LETTER FROM FZB

1/1

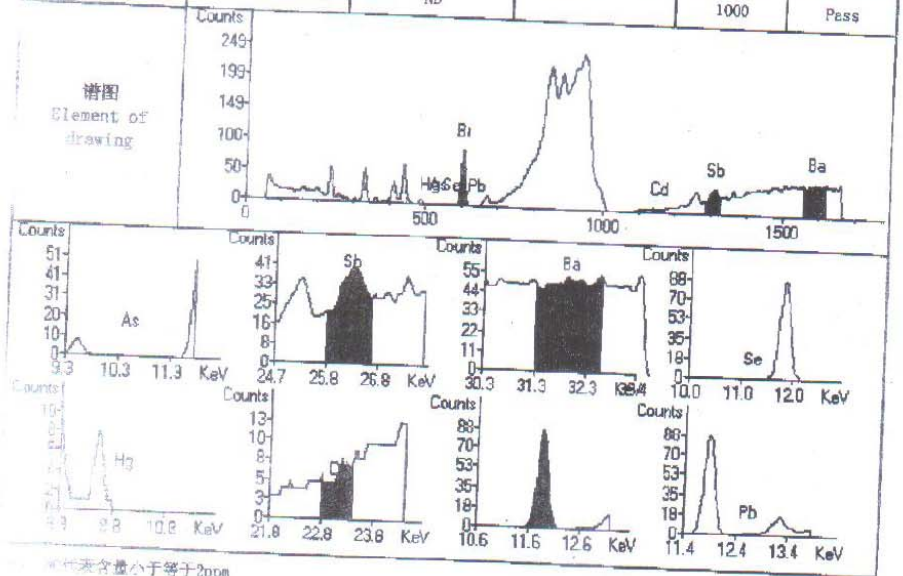
FZB

全分析报告

Total Analysis Report

样品名称 Sample Name	防尘网	测量时间 Test Time	200		
供应商 Supplier		管压 Voltage	46		
操作员 Operator	FZB	管流 Current	400		
测量日期 Test Date	2011-5-11	工作曲线 WorkCurve	PE		
批号 LotNo.		仪器型号 Mode	edx1800		
元素 Element	强度 Intensity	含量(ppm) Content(ppm)	误差(ppm) Error(ppm)	限定标准 Limits	判定 Results
As	0.00E+00	ND		1000	Pass
Sb	1.05E-02	85.2	2.26	—	—
Ba	1.83E-03	47.3	0.83	—	—
Sc	0.00E+00	ND		—	—
Hg	0.00E+00	ND		1000	Pass
Cd	-2.36E-04	ND		100	Pass
Br	2.43E-02	95.3	2.9	1000	Pass
Pb	0.00E+00	ND		1000	Pass

谱图 Element of drawing



代表含量小于等于2ppm

测试仪器分析测得的数据为表面测试

Cr, Br为测得该元素的总含量，如果其显示超标并不代表VI价Cr和PBB，PBDE超标。

惠州市繁中宝绵塑发泡厂有限公司检测中心 地址：惠州市惠阳区秋长新塘工业区

Huizhou City Fan-zhong-bao Rubber&Plastic Foam Factory Co., Ltd. Testing Center

Address:Huizhou Guangdong Province Huiyang District Qiu-chang Town Xintang Industrial Zone

DECLARATION LETTER FROM INNOLUX

HSM

Apr 25, 2012

CSR >> Green Vision >> Green Value Chain >> HSM

From the CEO's Desk
CMI's CSR commitment
Corporate Governance
Board of Directors
Internal Control System
Code of Conduct
Business Continuity Management
Green Vision
Green Living
Green Operations
GHG Management
Energy Management
Water Resources Management
Environment Impact Reduction
Green Value Chain
Green Product
Resource Management
HSM
Energy Management
Materials Management
Green Supply Chain
Green Environment
SER Management
Employee Care
Health and Safety
Recruitment and Employment
Rewards and Benefits
Training and Development
Employee Relations
Health and Safety
Contributions to Society
Scholastic Contributions
Arts and Culture
Community Engagement
Public Welfare
Honors and Awards
CSR News
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Following the globalization of product markets and supply chains, CMI has established the CMI Restricted Substances Management Standard (II3QM-0044) upon the RoHS, REACH and worldwide regulatory requirements after integrating customer requirements and standards, and the opinions and recommendations of relevant stakeholders. At CMI, alternative material development and toxic substance minimization are the foci in toxic substance management.

Alternative Material Development: CMI is the first in the panel industry to develop and use eco-friendly paper-plastic as packaging materials. Particularly, these materials are made of waste newspapers and corrugated paper, which are non-toxic, lead-free, biodegradable and pollution-free. After thermal pressing at very high temperatures, waste newspaper and corrugated paper pulp turns into the required shaped packaging materials without using adhesives and available for disassembly for recycling and reuse. CMI further requested suppliers to use packaging materials meeting the EU directives and CMI standards. In 2010, CMI completely replaced all arsenic glass with arsenic-free glass.

Hazardous Substance Minimization: In 2010, CMI voluntarily expanded the scope of halogen-free products to new panel modules. In LCD displays, CMI launched cooperation with customers. Part of the products and components already met the halogen-free target. Also, in order to minimize the mercury content in products, CMI began turning to LED products in new product design in 2010. In the same year, CMI expanded the scope of VOC control in packaging materials. In 2011, CMI will include parts and components in the VOC control.

To pursue the continuous development of the IT electronics industry, promote the realization of RoHS, and enhance the standard of IT electronics in environmental protection, CMI participated in the China RoHS voluntary certification promoted by the Electronic Information Product Pollution Control Technology Center and CESI Certification Center of the Ministry of Industry and Information Technology.

As the first group of enterprises to participate in the RoHS voluntary certification in China, CMI launched aggressive cooperation with the Electronic Information Product Pollution Control Technology Center and CESI Certification Center to make early supply chain preparation by establishing a complete hazardous substance control system and quality assurance system. CMI passed two China RoHS certifications from CESI, including the China RoHS factory audit for 1.36"-10.2" LCM production and management; and the China RoHS product voluntary certification for the 1.36"-4.3" LCM.

APPENDIX II

PHOTOGRAPHAS