

Survey Report

SUN HOLD ELECTRIC INC.
246 LIAN CHENG ROAD, CHUNG HO CITY,
TAIPEI, TAIWAN


Report No. : CS/2005/70002
Date : 2005/07/01
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The following merchandise was (were) submitted and identified by the client as :

Type of Product : RELAY
Style/Item No : RAS SERIES, RAM SERIES, RET SERIES, THA SERIES, THU SERIES,
THD SERIES, TDS SERIES, TNA SERIES, TNC SERIES, TNE SERIES,
SAR SERIES, SCB SERIES, SJV SERIES, SOJ SERIES, RX SERIES, RSV
SERIES, MD SERIES

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Test Result : - Please see the next page -

This report is combined with 11 copies of report which provides by client


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Result

PART NAME NO.1 : LT.GLODEN COLOR METAL PELLETS (FE160)(CE/2003/91100)
PART NAME NO.2 : LT.GLODEN COLOR METAL PELLETS (FE130)(CE/2003/91100)
PART NAME NO.3 : SILVER COLORED METAL WIRE(CE/2004/73163B)
PART NAME NO.4 : GOLDEN COLORED METAL SLICE(CE/2005/13836)
PART NAME NO.5 : COPPER COLORED METAL SLICE(CE/2005/13838)
PART NAME NO.6 : SILVER COLORED METAL(CE/2005/23387)
PART NAME NO.7 : PLEASE REFER TO THE REPORT F690101/LF-CTS032006
PART NAME NO.8 : PLEASE REFER TO THE REPORT F690101/LF-CTS002265 NO.1
PART NAME NO.9 : PLEASE REFER TO THE REPORT F690101/LF-CTS002265 NO.2
PART NAME NO.10 : COPPER COLORED METAL WIRE(GZSCR050101170/LP)
PART NAME NO.11 : BLACK SHEET(GZSCR050103751/LP)
PART NAME NO.12 : SILVER COLORED METAL PIECE(SZTYR050305678/LP)
PART NAME NO.13 : COPPER COLORED METAL TAPE(SH503368/CHEM)

PASS

Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.1	No.2	No.3	No.4	No.5	
EN 71 PART 3 Heavy metal content		As per EN 71 PART 3 : 1994 (A1 : 2000) (EN 71 & BS 5665 are identical)							
Soluble Lead (Pb)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	90
Soluble Antimony (Sb)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	60
Soluble Arsenic (As)	ppm	ICP-AES	2.5	---	---	---	< 2.5	< 2.5	25
Soluble Barium (Ba)	ppm	ICP-AES	10	---	---	---	< 10.0	< 10.0	1000
Soluble Cadmium (Cd)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	75
Soluble Chromium (Cr)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	60
Soluble Mercury (Hg)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	60
Soluble Selenium (Se)	ppm	ICP-AES	5	---	---	---	< 5.0	< 5.0	500

Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.1	No.2	No.3	No.4	No.5	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.	-
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.	-

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Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.1	No.2	No.3	No.4	No.5	
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.	-
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	20.8	-

Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.1	No.2	No.3	No.4	No.5	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	---	---	N.D.	N.D.	-
Dibromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Tribromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Tetrabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Pentabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Hexabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Heptabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Octabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Nonabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Decabromobiphenyl	%		0.0005	---	---	---	N.D.	N.D.	-
Total PBBs(Polybrominated biphenyls)/Sum of above	%		-	---	---	---	N.D.	N.D.	-
Monobromobiphenyl	%		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	---	---	N.D.	N.D.
Dibromobiphenyl ether	%	0.0005		---	---	---	N.D.	N.D.	-
Tribromobiphenyl ether	%	0.0005		---	---	---	N.D.	N.D.	-
Tetrabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Pentabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Hexabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Heptabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Octabromobiphenyl ether	%	0.0005		---	---	---	N.D.	N.D.	-
Nonabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Decabromobiphenyl	%	0.0005		---	---	---	N.D.	N.D.	-
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-		---	---	---	N.D.	N.D.	-

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Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.6	No.7	No.8	No.9	No.10	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	N.D.	---	---	N.D.	-
Dibromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Tribromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Tetrabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Pentabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Hexabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Heptabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Octabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Nonabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Decabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Total PBBs(Polybrominated biphenyls)/Sum of above	%		-	---	N.D.	---	---	N.D.	-
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	---	N.D.	---	---	N.D.	-
Dibromobiphenyl ether	%		0.0005	---	N.D.	---	---	N.D.	-
Tribromobiphenyl ether	%		0.0005	---	N.D.	---	---	N.D.	-
Tetrabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Pentabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Hexabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Heptabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Octabromobiphenyl ether	%		0.0005	---	N.D.	---	---	N.D.	-
Nonabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Decabromobiphenyl	%		0.0005	---	N.D.	---	---	N.D.	-
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	---	N.D.	---	---	N.D.	-

Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.6	No.7	No.8	No.9	No.10	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	N.D.	---	---	N.D.	-
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	---	---	N.D.	-

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Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.6	No.7	No.8	No.9	No.10	
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	N.D.	---	---	N.D.	-
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	14.4	22.0	---	---	N.D.	-

Test Item (s):	Unit	Method	MDL	Result					Spec.
				No.6	No.7	No.8	No.9	No.10	
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	---	---	<10.0	12.0	---	-
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	---	---	670.0	1480.0	---	-

Test Item (s):	Unit	Method	MDL	Result			Spec.
				No.11	No.12	No.13	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	N.D.	N.D.	-
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	2.0	-
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	-
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	9.0	23.0	11.0	-

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Test Item (s):	Unit	Method	MDL	Result			Spec.
				No.11	No.12	No.13	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	---	-
Dibromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Tribromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Pentabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Hexabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Heptabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Octabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Nonabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Decabromobiphenyl	%		0.0005	N.D.	N.D.	---	-
Total PBBs(Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.	---	-
Monobromobiphenyl	%		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	---
Dibromobiphenyl ether	%	0.0005		N.D.	N.D.	---	-
Tribromobiphenyl ether	%	0.0005		N.D.	N.D.	---	-
Tetrabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Pentabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Hexabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Heptabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Octabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	-
Nonabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Decabromobiphenyl	%	0.0005		N.D.	N.D.	---	-
Total PBDEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-		N.D.	N.D.	---	-

- NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) " - " = No Regulation
 (5) " --- " = Not Applicable