



Test Report

No.: CTL1504271019-R

Date: May 5, 2015

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Applicant: FOSHAN TUFF PLUS AUTO LIGHTING CO.,LTD

Address: Rd., Ritian, Songxia Industrial Zone, Songgang, Industrial Zone, Nanhai, Foshan, Guangdong, China, 528234

Manufacturer: FOSHAN TUFF PLUS AUTO LIGHTING CO.,LTD

Address: Rd., Ritian, Songxia Industrial Zone, Songgang, Industrial Zone, Nanhai, Foshan, Guangdong, China, 528234

Sample Name: LED work light bar

Model No: F0101, F0102, F0103, F0104, F0105, F0106, F0107, F0108, F0109, F0110, F0111, F0112, F0113, F0114, F0115, F0116, F0117, F0118, F0119, F0201, F0120, F0121, F0202, F0203, F0204, F0205, F0206, F0206A, F0207, F0208, F0209, F0210, F0211, F0301, F0302, F0303, F0304, F0305, F0306, F0307, F0308, F0309, F0310, F0311, F0312, F0313, F0314, F0315, F0316, F0317, F0401, F0402, F0403, F0404, F0405, F0406, F0407, F0408, F0409, F0410, E01series, E02 series, E03 series, E04 series, E05 series, E06 series, E07 series, E08 Series, E09 series, E10 series, E11 series, E12 series, E13 series, E14 series, E15 series, E16 series, E17 Series, E18 series, E19series, E20 series, E21 series, E22 series, E23 series, E24 series, E25 series, E26 series, E27 series, E28 series, E29 series, E30 series, E31 series, E32 series, E33 series, A0101, A0102, A0103, A0104, A0105, A0106, A0107, A0108, A0109, A0110, A0201, A0202, A0203, A0204, A0205, A0206, A0207, A0208, A0209, A0210, B0101, B0102, B0103, B0104, B0105, B0106, B0107, B0108, C0101, C0102, C0103, C0104, C0105, C0106, C0107, C0108, C0109, C0110, C0201, C0202, C0203, C0204, C0205, C0206, C0207, C0208, C0209, C0210, C0211, C0212, C0213, C0214, C0215, C0216, C0217, C0218, C0218, C0219, C0220, C0221, C0222, D0101, D0102, D0103, D0104, D0201, D0202, D0203, D0204, D0205, D0206, D0207, D0208

Trade Mark: 塔孚 TUFF PLUS

Test period: April 25, 2015 to May 5, 2015

Test requested: RoHS Directive 2011/65/EU Annex II

Test Method: IEC62321 Edition 1.0:2008 method: Regulated Substances Content of test process with Electrical & Electronic Products

- (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
- (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Written by:

Cherry Huang

Approved by:



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Test Results:

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
1	Led	Cd	mg/kg	N.D.	SGS Report No.: CANEC1304235602
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
2	Mask	Cd	mg/kg	N.D.	SGS Report No.: GZ1104042686/CHEM
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
3	back cover	Cd	mg/kg	N.D.	SGS Report No.: CANEC1311871701
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
4	Pcb	Cd	mg/kg	N.D.	SGS Report No.: CE/2012/21365
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
5	aluminum substrate	Cd	mg/kg	N.D.	SGS Report No.: CANEC1307024001
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	

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6	DOUBLE INSULATED CONDUCTOR	Cd	mg/kg	N.D.	SGS Report No.: CANEC1307024003
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
7	hexagonal screw	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1300377301
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
8	support	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1300377305
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
9	hexnut	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1300377303
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
10	round-head screw	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1300377307
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
11	outgoing line sleeve	Cd	mg/kg	N.D.	SGS Report No.: CE/2013/45010
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	

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12	ab adhesive	Cd	mg/kg	N.D.	SGS Report No.: CE/2013/45017
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
13	thermal grease	Cd	mg/kg	N.D.	SGS Report No.: CE/2012/25421
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
14	bubblepak	Cd	mg/kg	N.D.	SGS Report No.: CANEC1216918105
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
15	color box	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1301740806
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
16	outer box	Cd	mg/kg	N.D.	SGS Report No.: SHAEC1219323505
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	

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ROHS Requirement

Restricted substances	MDL	Limits
Lead(Pb)	5	0.1%(1000 ppm)
Cadmium(Cd)	5	0.01%(100 ppm)
Chromium(VI)(Cr6+)	5	0.1%(1000 ppm)
Mercury(Hg)	5	0.1%(1000 ppm)
Polybrominated biphenyls(PBBs)	5	0.1%(1000 ppm)
Polybrominated diphenyl ethers(PBDEs)	5	0.1%(1000 ppm)

Note:

_mg/kg=ppm=0.0001%

-MDL=Method Detection Limit

-N.D. =not detected (<MDL)

-Photo is included

-Test results are from other testing organizations. Shenzhen CTL Testing Technology Co., Ltd. has no liability to assume the verification of the authenticity of the above test reports results.



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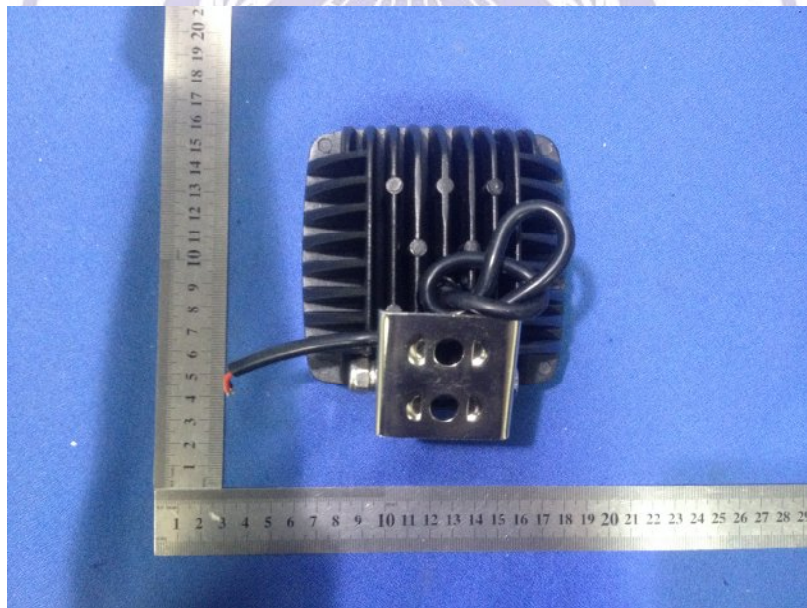
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Photographs of Sample:



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