

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, F0204, F0205, F0204, F0205, F0205, F0206, F0

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, E19 series, 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:

Jackychen approved cellectromagnetic Technology

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055 Tel: +86-755-89486194 Fax: +86-755-26636041 Web: www.ctl-lab.com

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Test Results:

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

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Pound-head screw Cd mg/kg N.D. Pb mg/kg N.D. CANEC1307024003						
POUBLE INSULATED CONDUCTOR Hg mg/kg N.D. CANEC1307024003			Cd	mg/kg	N.D.	
CONDUCTOR	6	DOUBLE INSULATED	Pb	mg/kg	N.D.	
CONDUCTOR			_	mg/kg	N.D.	SGS Report No.:
PBDES mg/kg N.D.	"	CONDUCTOR	Cr ⁶⁺	mg/kg	N.D.	CANEC1307024003
Tound-head screw Cd mg/kg N.D. Pb mg/kg N.D. SGS Report No.: SHAEC1300377301			PBBs	mg/kg	N.D.	
Pb			PBDEs	mg/kg	N.D.	
Hg			Cd	mg/kg	N.D.	
Tound-head screw C ₁ ⁶⁺ mg/kg N.D. PBBs mg/kg N.D.			Pb	mg/kg	N.D.	SGS Report No.:
BBS mg/kg N.D. SHAEC1300377301	_	havenand agrees	Hg	mg/kg	N.D.	
PBDEs	'	nexagonal screw	Cr ⁶⁺	mg/kg	N.D.	SHAEC1300377301
Support Cd mg/kg N.D. Pb mg/kg N.D. SGS Report No.: SHAEC1300377305			PBBs	mg/kg	N.D.	
Pb			PBDEs	mg/kg	N.D.	
Hg			Cd	mg/kg	N.D.	
SHAEC1300377305 PBBs mg/kg N.D. PBDEs mg/kg N.D. PBD			Pb	mg/kg	N.D.	
Cr6+ mg/kg N.D. SHAEC1300377305		101	Hg	mg/kg	N.D.	
PBBs mg/kg N.D.	8	support	Cr ⁶⁺	mg/kg	N.D.	
PBDEs mg/kg N.D.			PBBs	37/107	N.D.	
Pb mg/kg N.D. Hg mg/kg N.D. SGS Report No.: SHAEC1300377303 PBBs mg/kg N.D. PBDEs mg/kg N.D. Pb mg/kg N.D. Pb mg/kg N.D. Pb mg/kg N.D. Pb mg/kg N.D. SGS Report No.: SHAEC1300377303 SGS Report No.: SHAEC1300377303 Pb mg/kg N.D. SGS Report No.: SHAEC1300377307 PBBs mg/kg N.D. SGS Report No.: SHAEC1300377307 PBBs mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. PBDEs mg/kg N.D.			PBDEs	a PA	N.D.	
Pb mg/kg N.D. Hg mg/kg N.D. SGS Report No.: SHAEC1300377303 PBBs mg/kg N.D. PBDEs mg/kg N.D. Pb mg/kg N.D. SGS Report No.: SHAEC1300377303 SGS Report No.: SHAEC1300377303 Pb mg/kg N.D. SGS Report No.: SHAEC1300377307 PBBs mg/kg N.D. SGS Report No.: SHAEC1300377307 PBBs mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. Pb mg/kg N.D.		hexnut	Cd	mg/kg	N.D.	
Tound-head screw Cr ⁶⁺ mg/kg N.D. SHAEC1300377303			Pb	mg/kg	N.D.	
Tound-head screw			Hg	4/44	N.D.	
PBBs mg/kg N.D.	9		Cr ⁶⁺	mg/kg	N.D.	
Cd mg/kg N.D.			PBBs	mg/kg	N.D.	
Pb mg/kg N.D. SGS Report No.: SHAEC1300377307			PBDEs	mg/kg	N.D.	
Hg mg/kg N.D. SGS Report No.: SHAEC1300377307		(,)	Cd	mg/kg	N.D.	
Cr ⁶⁺ mg/kg N.D. SHAEC1300377307 PBBs mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. Pb mg/kg N.D.		\'\	Pb	mg/kg	N.D.	
Cr ⁶⁺ mg/kg N.D. SHAEC1300377307 PBBs mg/kg N.D. PBDEs mg/kg N.D. Cd mg/kg N.D. Pb mg/kg N.D.	10	round-head screw	10 Hgina	mg/kg	N.D.	- '
PBDEs mg/kg N.D. Cd mg/kg N.D. Pb mg/kg N.D.					N.D.	
PBDEs mg/kg N.D. Cd mg/kg N.D. Pb mg/kg N.D.			PBBs	mg/kg	N.D.	
Cd mg/kg N.D. Pb mg/kg N.D.			PBDEs		N.D.	
Pb mg/kg N.D.	11	outgoing line sleeve	Cd		N.D.	SGS Report No.: CE/2013/45010
			Pb		N.D.	
Hg mg/kg N.D. SGS Report No.:			Hg	mg/kg	N.D.	
11 Outgoing line sleeve					N.D.	
PBBs mg/kg N.D.			PBBs		N.D.	
			PBDEs	mg/kg	N.D.	

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			1	1	
		Cd	mg/kg	N.D.	
		Pb	mg/kg	N.D.	
12	ab adhesive	Hg	mg/kg	N.D.	SGS Report No.:
12	an aunesive	Cr ⁶⁺	mg/kg	N.D.	CE/2013/45017
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		Cd	mg/kg	N.D.	
		Pb	mg/kg	N.D.	
13	4h awaa l awaa a	Hg	mg/kg	N.D.	SGS Report No.:
13	thermal grease	Cr ⁶⁺	mg/kg	N.D.	CE/2012/25421
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
	bubblepak	Cd	mg/kg	N.D.	
		Pb	mg/kg	N.D.	
44		Hg	mg/kg	N.D.	SGS Report No.:
14		Cr ⁶⁺	mg/kg	N.D.	CANEC1216918105
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	3 \
	color box	Cd	mg/kg	N.D.	1
		Pb	mg/kg	N.D.	
45		Hg	mg/kg	N.D.	SGS Report No.: SHAEC1301740806
15		Cr ⁶⁺	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
	outer box	Cd	mg/kg	N.D.	
		Pb	mg/kg	N.D.	
16		/ OHg in	mg/kg	N.D.	SGS Report No.:
10		Cr ⁶⁺	mg/kg	N.D.	SHAEC1219323505
		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 biphnyls(PBBs)	5	0.1%(1000 ppm)	
Polybrominated diphenyl	E	0.49/(4000 ppm)	
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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Photographs of Sample:





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